

e Age of Big Infe

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REPORT GLOBALIZATION From chaotic streets in

India to regulatory gotchas in Europe, going global is full of surprises. Here's a guide to the governance, legal, personnel and cultural issues you'll face.

CONLINE Test your knowledge of world business practices and culture with our Cultural IO our

New York Faces Federal Suit Over Voter Accessibility Law

DOI says state lags in complying with IT mandates

BY MARC L. SOHOINI The state of New York is heing threatened with a federal lawsuit for failing to comply with the Help America Vote Act, which requires actions such as the development of statedatabases and the installation of e-voting systems or other voting machines that are handicapped-accessible. The legal threat came in a letter sent to state officials last month by Assistant U.S. Attor-

ney General Wan Kim. In the letter, Kim said that New York is "further behind" in HAVA compliance than any other state and that

Attorney General N.Y. Suit. nove 49 Security Execs Push for Broader Use of Metrics Say measuring risks and evaluating den't eve too home on on

ing corporate executives to

demonstrate due diligence on

protectine their data assets

"Start using metrics to

make security decisions, and

one of the worst things I could do is spend too much

money on security.

I would say

controls helps prioritize spending

BY JAKUMAR VLIAVAM Measuring IT security risks and the effectiveness of corporate defenses can be a dif-

heult and somewhat imprecise tack. But that shouldn't be an excuse for not trying to eather such metrics. IT managers said at the annual RSA Conference here last week.

Security professionals have long advocated that companies use both quantitative and qualitative metrics to get a more granular view of I'l risks and the controls needed to mitirate them. At RSA Conference 2006, many at

the quality of the data, and don't get too hung up on complicated methodologies." tendovs said the topic is takadvised John Meakin, group ine on increased importance head of information security because of regulatory requirements that are pressur-

at Landon-based Standard Chartered Bank, "Just start doing it." Meakin said that using metrics to prioritize security threats and vulnerabilities.

according to the risks they pose to IT assets can beln security managers target their resources more effectively - and determine whether they are putting the appro-

priate amount of money into security efforts. For instance, Standard Chartered has been moving

Security, page In

wide voter-registration Idealla de addition alle a did de la distriction d SECRET TRANSPORTER PROPERTY 48183 #8576358/CB/6# CH298688 881 13514

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Jettainer manages shipping containers for Lufthansa and US Airways on 3,000 flights to 400 airports every day. To keep up with a database growing at 30% a year, they upgraded to SQL Server* 2005. See how at microsoft.com/bigdata













With Sybase* software, BNSF Railway Company developed a mobile application that enables remote workers to document railway maintenance and:

Cuts data entry time by approximately 50 percent

Provides more accurate and timely data

Delivers software and database updates automatically

for most organizations, maintaining \$2,500 miles of sail lines would be a colosial headsche Bust for BMGF Railway Company, it has become a completion solventing lecture they have an information object that comes from Sybase SQL Anymheet's and Adaptive Sevent Anymhees software that the second of the second solventing and the second solventing solventi



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02.20.06

SPECIAL REPORT Globalization

NEWS

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Afficement expands its wireless mail offerings through a series of deals with mobile network operators and handheld makers.

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14 Global Disputches: South Ko-rea's trade regulators search Intel's offices in Seoul as part of an investigation of the company. 14 Service outages prompt Sales-force.com to develop a Web

site for updating users on the status of its hosted CRM apps. 16A lack of support options is disouraging some IT execs from adopting open-source software.

conference panelists say. 18 Q&A: EMAC designer J. Presper Eckert debunks some myths about the first all-electronic computer in interviews taped in 1989.

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OPINIONS

10 On the Mark: Mark Hall says it's operational risks in business or within IT itself. But he reports on a suite of tools designed to help users identify, mitigate and notentially avoid the risks. He also describes a tool that lets you monitor for Rorder Gateway Protocol injection attacks and tells of the birth of the Infrastructure Management Institute in Kentucky

20 Don Tonnant contends that between being a truly global operation and being a company with a collection of offices in different countries is a hallmark of today's

20 David Moschella ponders the Internet's power as a source of truth that has no other outlet following recent debates on information access, responsibility and self-censorship.

21 Thornton A. May says we are entering the Age of Big Information, when we can finally manage the deluge of data that's been washing over us.

50 Frankly Speaking: Frank Hay recalls the granddaddy of all IT projects, the creation of ENIAC 60 years ago this month And be muses on the one clear lesson from it: J. Presper Eckert and his team understood exactly what ENIAC was intended for, and that

clarity helped ensure success DEPARTMENTS/RESOURCES

At Deadline Briefs

Navigating Global IT

Editor's note: Going global is full of surprises, even for savvy IT executives. This special report offers IT leaders at multinational companies a guide to the governance, legal, personnel and cultural issues they'll face. Package begins on

page 23. 24 Balancing Act. As U.S. companies aspire to become global enterprises. IT executives must standard

ize processes. Here's a look at three approaches for creating equilibrium. 26 Culture Clash. We examine some of the misunderstandings that

can arise when people from different cultures come together on a project team and offer suggestions about how to avoid clashes. Plus. tips for doing business in Hong Kong. India, Russia and Taiwan. 32 Clobal Coloba avoid hidden traps in international law covering areas like labor relations, taxo tion and more



36 Casting Call. Finding people to manage IT outposts abroad can require a global search, say IT exace like Alan Boohme of Juniper Networks. Plus, the challenges of recruit

ing in Ireland and India. 38 Blind Spots. Global companies are striv ing to improve supply chain visibility

42 Safety Zene. Learn how companies with facilities throughout the world plan for business continuity and disaster recovery.

44 Opinion: CIOs (Ebesid) Ruis. On the global scene, a good CIO is a far better asset than a good CFO, says colummist Mark Hall.

Rill Aims to Restrict

Web Server Sites Rep. Christopher Smith (R-M.J.) last week introduced legislation in Congress that would ben U.S. Internet companies from

locating Web servers inside net-restricting" countri such as China and Vietnam. The bill calls for prison sentences for ose who don't comply with the om Act would also prohibi U.S. search-engine com from altering the results of rches in those countries.

P Revenue Un 6%. eats Projections viett-Packard Co. repr that revenue increased by 8% in its first quarter, beating expectaes of analy sts surveyed by son First Call by more than

06 522.78 Q1 '05 **\$21.58** \$943M

IBM to Ship Slimmer Tivoli Identity Tool

DM next week will start phis med-down version of its Tiveli Identity Manager software nigned for small and midsiz ses. The software is cally used by very large co ies to manage us and passwords and audit uses activity. The new Express vernits use of the software to 5,000 users and will be priced at \$24 per user, IBM said.

Short Takes DELL INC. said it topped ray and earnings expectations in its fourth quarter, helped by strong sales of enterprise products and services. Revenue totaled \$15.2 billion in the quarter. rhich ended Feb. 3. . . The U.S. DEPARTMENT OF THE TREASURY's inspector game has insued a report saying that

the agency should core options before awarding a rsial 10-year, \$1 billion

AT DEADUNE IBM Ups Data Management Bill Aims to Restrict Ante to Match IT Trends

Will boost software R&D spending.

add consultants BY PATRICK THIBODEAU

BM last week announced a multipropered data management initiative that has been driven by several trends: handware that's petting increasingly supercomputerlike, improved software canabilities for secessing data, pressure from data-intensive technologies

desire by businesses to improve their use of information At a press briefing bere, IBM said it plans to spend \$1 billion over the next three years to expand its development of data management software The company will also boost the number of workers in its services group who are dedicated to data management

such as RFID, and an overall

work by 65% from 15 000 now to about 25,000 In addition, IBM is working to more closely alien its middleware products and consult me offerings. At the briefing is unveiled a set of six "solution portfolios" related to manae-

ing data as well as uncoming data integration software called WebSohere Informatic

Steve Mills, senior vice president and group executive for software at IBM, said he expects to see a rapid increase in demand for data management software and services.

"I think we're at a juncture here for this thing to really explode and take off bence the billion dollars on the software side and another 10,000 practitioners on the services side " Mills said in an interview (see O&A below). Robert Schwartz CIO w

Panasonic Corporation of North America in Secaucus. N.L. was among some IBM customers who took part in a panel discussion during the press briefing. Schwartz said Panasonic has been actively working to improve its information management canabilities. Replacing radimentary methods, such as sharing information via spreadsheers e-mails and even faxes, with more integrated systems has helped to shorten product time-to-market cycles by a

matter of months, he said

Schwartz said he now sees

Add-on Software

light year in the in

radio frequency identification as "the next driving force" for data management, but one that will also bring new challenges. "Think about the massize amount of information that will be generated," said Schwartz, adding that companies that learn how to use all that data will be able to gain competitive advantages. Wachovia Corp. CIO loe

Monk said in an interview

that we couldn't attack helpes

spent two years focusing on integrating applications and is now moving "up the stack" to its internal business processes. How are we managing that data? How are we bringing that data to the right people in the right place at the right time? [Those questions are] all the effort, said Monk, who said he sees himself as Wachowis's "chief transformation officer." Monk said his biggest challenge isn't the technology but

that the Charlotte N.C. desert financial services firm has

orchestrating all the processes involved with improving data management. That includes dealing with acquisitions and overall business growth while we're under tremendous efficiency pressure to deliver faster, better and emarter coburions," he said. "I think it's very double, but if we underestimate the complexity of that orchestration, we're pur-

tine ourselves at risk " "There is a much greater awareness that there is huge value to be derived from data? said Vasant Dhar, a professor and chairman of the information systems group at New York University's Stern School of Business, Accessine in creased amounts of data can change the way a company interacts with its customers and even prompt a rethinking of business models. Dhar said.

Users Face 'Supercomputing-Type Problems' With Data, Mills Says NEW YORK quantities of data the shifty to deal affack problems of enormous scale

Steve Mills, senior vice president with that date in real time and to be and group executive for software at able to give accovers back cooking IBM, spoke with Computerworld after fast week's data management announcement

What's really now and di forest here? You haven't made data mana a priority from the start? We certainly hoven't just discovered these opportunities. We have been investige for a number of years, believing that this area was poised for a significant untick in contr

snend. We know that the core in sues related to quality of data, large

that were usolid. We had a set of concepts behind the invest ments that we made five beyond that, we've come to

recognize that the size of the opportunity is dramatically greater then we had links understood That tends to happen when you perceive things to be true then you get engaged and you start to mally understand the mannitude of the problem Combine that with the fact that hardware perforce capabilities have reached the

level of maturity, and you can now

What will come out of the \$1 bill irrestment? The last five years have been spent accumulating technology. Concurrent with that, we were off doing these first-of-a-kind exercises with diftest out the capability and verify what we are able to do. This nest phase will be hardening solutions for repeatability giong with some amount of technolog extension. These are supercomputing-type problems. They have all the

What will the tighter interration

ferent businesses and governments to ecteratics: huge amounts of data. lots of machine cycles to manipulate.

between the software group and liver to seers? In simple terms, it's more projects for more clients. If we can take what we've already done and repeat it and expand it out to more clients. It will improve our total

What can customers expect to pr over the next year as part of this initiative? Obviously, our invest is going to translate into a greater visibility of IBM coming to them with ideas. We hope in turn they are coming to us. We certainly are anticipating that this is going to drive double-digit growth for us.

-PATRICK THIBODEAU

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From mainframes to servers notebooks, and fablet PCs no other company provides the full spectrum of services to support sources of the support as of the support as of the support as of the support as of the support and IPR pilos (2590° U.NIO*, Wholese' and Irux environments. We also provide services that improve the operation of your existing IT investments and of your existing IT investments and of your existing IT investments and for down costs. So, if it's critically important to a CO's IT it, infrastructure, we see Test infrastructure.



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Microsoft Advances Wireless F-mail Plan

Signs Direct Push deals with device makers, carriers

BY MATT HAMBLEN BLEOSOF ELORE extended its reach into wireless push her work, appearating a group of deals with mobile network operators and handheld device makers that agreed to support its Direct Push technology.

Four network carriers said that they will provide users of devices running Windows Mobile 5.0 with free upgetates to Microsoft's Messaging and Security Feature Pack (MSFP) which includes the Direct Push functionality. Meanwhile. Hewlett-Packard Co. and three other hardware vendors unveiled Windows Mobile-based handhelds that have Direct Push built into them. A fifth said it plans to roll out similar devices in the second ansener

ments, which were made at the GSM World Congress 2006 in Barcelona, Spain, several et one of the reach to Med or Ltd.'s BlackBerry service said they welcome the progress that Microsoft has made in wireless e-mail, especially in light of NTP Inc.'s ongoing

parent lawsuit against RIM. But some users and analysis said that Windows Mobileneeds to be improved in order to become more widely adopted. For example, there the concerns that the mobile operating system isn't userfriendly and that uperadine to the MSFP won't be vasy.

Viable Alternative? John Halamka, CIO at Care-Group Healthcare System in Buston, said be tested a Palm Tree 700w running Windows Mobile but found it lacking companyd with the BlackBerry devices that he and 500 other CareGroup workers use.

"Direct Push is mond, but me experience with all Microsoft mobile technologies is that their are not us easy to use as BlackBerry," Halamka said. But Frank Gillman, director of technology at law firm Allen Mutkins Leck Gamble & Mallory LLP in Los Angeles said that he found Microsoft's advances in wireless e-mail to be an encouragene sign

NFWS

"Microsoft's entry into an technology arena queht to seriously scare competitors in that space," said Gillman, who supports 220 attorneys and legal staffers who use Black-Berry devices, "Companies heavily invested in the Microsoft Exchange environment will see [Direct Push) as a

viable alternative for wholese e-mail." He included Allen Markins in that group of users. John Starkweather, group product manager at Microsoft from Spain that the about of wireless compilars Exchange

Server 2003 Service Pack 2 and devices ranning Win-Jones Mobile 5.0 could vastly increase access to the technol-

new for end users There are potentially tens of millions of business users who could take advantage of Direct Push, compared with 8 million to 10 million who are us-

ing services from RIM, Good Technology Inc. and other vendors Starkweather exist A total of about 100 network

contrators currently superior Direct Push, he added, Among the four that appearant feve unerades to the MSEP coftware last week is one of the ton three U.S. carriers Cincular Wireless LLC, as well as T-Mobile International AG. which is a distant fourth in the U.S. but much bigger in other countries (see host).

Todd Kort, an analyst at Gartner Inc., said he thinks Microsoft's force into wireless compil with Direct Buch will ultimately be unconsulately and Microsoft's track record with 1.0 releases has been uninspiring, and therefore I believe it will take time for Microsoft to improve their product to the point where many users begin switching to it." Kort said. Microsoft and its portners are undoubtedly trying to take advantage of RIM's legal ways

said lack Gold on anabor or I. Gold Associates in North boro, Mass. But he noted that Microsoft faces its own patent infringement lawquit from Visto Corp. over Direct Buch The case, filed in December in U.S. District Court in Texas, involves three Visto patents. Microsoft has declined to comment on the lawsuit.

Female CIOs Rare in California, Study Finds

A study of the 200 Jaroest publicly traded companies in California found evidence of a plass ceiling that's keeping women from reaching the harbest executive ranks including CIO postroom Only four of the companies had female CIOs as of fast August, according to the study which was released this month by the Graduate School of Management at the University of California, Dayts, The researchers identified six women working as CFOs and II serv. ing as chief financial officers Overall, women accounted for

inst 8.2% of the LOOK highway paid executive officers at the companies that were studied. the researchers said "Women executive officers

in California's largest public

companies are a nane broad? the school's dean and two professurs wrote in a jointly upthored report about the study Katrina Ellis, an assestant

professor of management who was one of the authors, said last work that the school plane to make the study a benchmark for year-to-year undates on the progress of women in the state's executive ranks.

"We want to point out that spoortunities if they're only looking at half the population to select their directors and executives from," said Ellis, who added that the results are similar to those of studies done in other states. Ann Franks, CIO at Lanier

Worldwide Inc., a SI7.1 billion manufacturer of office enteres tion equipment in Atlanta, said the California study "is really discouraging," especially given that state's technology leadership role

Companies have to include women in their leadership development pools to help address the kind of inequities found in California, Franks said. But she was perplexed by the low number of female IT executives found there. She said she knows of eight other female CIOs in the Atlanta

area, and she's involved in afterware unset to belo severen consider IT as a canver and achieve leadership roles once they're in the technology field. Overall, the percentage of women in the IT workforce declined from a high of 41% in 1996 to 32.4% as of 2004, according to a report released Last year by the Information

Technology Association of America in Arlington, Va. Increasing the number of women in IT would help im prove their visibility to upper management, said Terrie Iones. founder and CFO of AGSI an Atlanta-based technology management and consulting

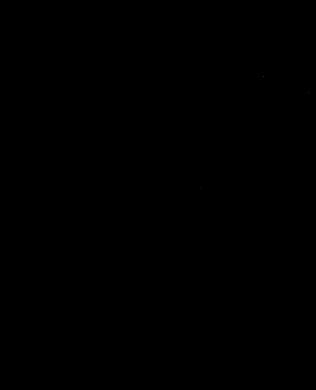
firm. The decision of many capable women not to enter IT "is very frustrating to me," she said. "IT is a great mommy track. If you are going to have a child, IT is very forgiving for you to come back into." Carolyn Leighton, founder

of Women in Technology International, a Sherman Oaks Calif-based professional development organization, said that women need to promote themselves more. "Men have done this for many, many years, and part of being select ed [for management jobs] is making sure that people know about you," she said. Franks and other women involved in IT agreed that net-

level job prospects. "We need to learn how to network like the men do," said Patricia Randall, an executive board member at the Society for Information Management and an account director at Kforce Inc., a professional staffing hrm in Tamos. Fla. The shortage of women in 1T has become a leading issue

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for SIM, which began holding workshops on the subject around the U.S. last year.



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ing workshops on the subject around the U.S. last year.

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3x THE	CORES
6	2
ARX MORE COMPUTE	THREADS PER RACK
960	52
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10	30
1/4 THE POWER C	ONSUMPTION
300 Watts	1,300 Watts
THE RIGHT ARCHITE WEB AND APPLICAT	CTURE FOR YOUR
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6 minute Minutes et al approximation de la proposition del la proposition del la proposition de la proposition del la proposition de

Oracle Purchases enveat Software

Oracle Corp. has acquired ones cat Software Inc. The ace nds Oracle's line of emb ded databases, which inch Oracle Lite for mebile de and Times Ten for high-port ce, in-memory da ns. Sleegycat'a Berkeley 6 is embedded in several or rce products, including Linux the Anache Web server and the nLDAP directory. Terms of the deal were not disclosed.

ortel Spins Off erver Switch Unit tel Networks Corp. has sour off its blade server switch busiis into a new company call

to equity firm Garnett & ich Capital, which inve closed amount in R rk, is the controlling ider, while Nortel ret rity stake. The new con-

peny is in Senta Clara, Calif., and on with Cinco Syste Inc. The financial terms of the deal weren't disclosed.

icroStrategy Adds to en-Source Support

Strategy Inc. has certified he latest version of its bu once software to work with open-source databases MySQL and PostgreSQL. The move is part of MicroStrategy der plan to support opene software. The company's Bi products already run on Linux and work with the Mozilla Firelox

Grid Organizations Merge, Ending Rivalry

shal Orid Forum and rise Orid Allonce Inc. I sed to merge, combining two n at odds despite their sin rters of premeting grid con g. The two groups are now ing a detailed merg n and hope to establish a

C ON THE MARK



IT Flushes Out Risk Factors.

... to minimize their effects on the business. "The key goal of operational risk is not to eliminate it but to give visibility to it," says Patrick O'Brien, director of product management at OpenPages Inc. in Waltham, Mass. After all, he deadpans, "things will go wrong," But if

von can identify risk variables in advance. monitor them and measure their ramifications, you can mitigate

or even avoid them, suggests Peter Morgan, vice president of marketing at OpenPages. Morgan says the company's suite of governance, risk and compliance management software can ineest data from finance, operations and sales management systems and warn corporate execs when the business is teetering into dangerous territory. For

example, a new operational risk management module. called OpenPages ORM con determine when employee turnover in a manufacturine operation is going to hamper production and will automatically signal the folks in human resources to beef up recruiting efforts for assembly-line workers before the situation becomes critical. Morgan says that IT will also be getting

domain-specific views of risk awareness via a separate module that's expected to be ready by midveat. Pricing for the OpenPages software starts at about \$2,000 per seat

You can monitor for BGP injection attacks, although you can't prevent them. You read here in the fan. 30 issue that "there

isn't a darn thing you can do" to protect yourself from attackers exploiting the Border Gateway Protocol and bijack ing your IP addresses. Well. that's not completely true You can't stop evildoers from stealing lists of IP addresses via the BGP injection method. But Todd Underwood, chief operations and security

officer at Renesys Corp. in Manchester, N.H., contends that you can do something about what he calls "network identity theft." His company's Routing Intelligence service monitors whether your IP ad dresses are being advertised as belonging to an inappropriate network. It can alert you in as little as five minutes af-

HOT TECHNOLOGY TRENDS. NEW PRODUCT NEWS AND INDUSTRY BUZZ BY MARK HALL



ter an incident takes place. save If you do montos an alert you will need to contact the Internet service providor used by the

had guy. The ISP's duty is to shut down the attacker cause Underwood He was no that the RGP injection threat "is scars and it's not fictional? So do something. The Renesys service starts at \$1,000 monthly per named user, who is generally your network admin

Government funding helps kick-start user-focused IT man

ment institute in Kentucky. Not vet officially launched, the Infrastructure Manuscreent Institute (IMI) in Highland Heights, Ky. has received seed money from the feds and Kentucky's Department of Commercialization and Inno vation. The institute has also hired executive director Tim Economy who most recently was senior vice president for Unicenter research and de-



child of John Bostick CFO of dbaDirect Inc. in nearby Florence the that will be operational in 60 to 90 days. Ferguson says. The institute is

housed at Northern Kentucky University, which is near Cincinnati. Ferguson says Kentucky and the parts of Ohio and Indiana that the university draws students from aren't as immediately identified with high technology as California's Silicon Valley or Route 128 in Massachusetts. Still, he claims the school is one of the few in the nation

that has created a College of Informatics, merging comput er science IT management and telecommunications into a single discipline. The IMI plans to build a lab to test real-world IT problems for its members, and it will develop a corriculum of confessors webcasts and collaborative workshops. The institute also will contifu most on in FF do. major instead of on individual products. Ferguson says most large companies want IT staffers to be certified in functional areas such as desc hases or networking because they use multiple products in their data centers.

Manage corporate slide decks . . . with an alternative to Pr Point, James Ontra, CFO of Ontro Presentations IIIC in

New York, thinks there's a better way to equip business folks with tools for presenting corporate data: Use a slide collection that's built on a centrally controlled database. That's the key difference between his company's Power-Point-compatible Optra Presenter software and Microsoft Corp.'s ubiquitous product. Presenter lets end users so cere a central database of slides and arrange or even alter them as needed Slides can then be stored locally on laptops and get updated with the latest information from the central repository via a mouse click, Ontra says. He calls presentation tools "the missing piece of CRM."

In fact, by year's end, he plans

to integrate Presenter with

CRM offering

users.

such as Siebel applications and Salesforce. com Inc.'s hosted software. Subscription pricing starts at \$250 per month for five end







SAP's Appeal of Oracle Pact Denied

The U.S. government has denied an appeal by SAP A6 that protested an SRB 5 million contract that the Air Force swanded to Oracle Corn. last Init. The Air Force Expeditionary Combat Support System project will retire hundreds of aging pests in tavor of a single supply chain management application, SAP claimed that Oracle's personal did not reflect the best potion.

Moss Named MIT

Media Lab Director Frank Moss, who was president and CEO of Tivoli Systems Inc. before and after its 1996 purchase by IBM, was named director of the MIT Media Lab. a earch facility that speciali replaces Walter Bender, who is taking a leave of absence to serve at One Lapton per Child. a nonoroht eroun

CTO Leaves Nokia

To Take CFO Joh Portti Korbonen, chief techn ony officer and esecutive vice dent of technology platforms at Mokia Corp., has been ned CEO of Elektrobit Broup Oyi, a manufacturer of products and testing systems for the wire less industry. Nokia named Niklas Sevander, head of its mob devices business unit, to take over the technology platforms pest and Chief Strategy Officer Tero Ojanpera as CTO.

HP. Novell Unveil

SUSE Linux Pack Hewlett-Packard Co. and Novell inc. have agreed to jointly offer a bundled license that they say makes it easier and sper to run Novell's SUSE Linux Enterprise Server on HF systems. The Enterprise Linux 8-License Value Pack provides a subscription to Novel SUSE Linux Enterprise Server 9 for HF ProLiant and BladeSystem servers. The license costs \$5,700 per year and includes support for

RRIEFS Feds Seek Outside Help Appeal of To Boost E-health Efforts

Contractors to create guidelines for regional exchange of health data

BY HEATHER HAVENSTEIN

EFECTALS OF health care groups working on regional data exchange systems last week said they bucked the federal covernment's new plan to develop at and order and epidelines to help in their pross-nurs efforts

David Brailer, national enordinator for health information technology said that more the next year, his office in the U.S. Department of Health and Human Services will former late guidelines and minimum standards for regional health

information organizations Speaking to an audience at the Healthcare Information & Management Systems Society conference here. Beailer said that his office will begin seek-

cases, heelth groups are using the

For example, Bower Medical

interested Healthcase Association

Group LP in Redlands, Calif., re-

payouts from such programs to

upgrade their systems.

ing bids within a month for a contract to evaluate existing RHIO efforts and to develop guidelines for improving and expanding the programs. Brailer said the effort will include developing guidelines for creating statewide groups to beln local PHIOs deal with the governance, financial and operational challenges of working together. "We want RHIOs to know where we are heading so they can make their plans accordingly." he said. "If we have RHIOs governing themselves locally there needs to be something that ries them towerher."

Reason to Believe

John Blair, president of Taconic IPA Inc. in Fishkill, N.Y. said Brailer's officer is encounaging because many RHIOs. throughout the country are struggling. In 2001, the physi cian practice group started a sacressful RHIO called the Tayonic Hoolth Information Network and Community in the Hudson Valley region of

Blair said the plan "shows

serious about this (and) that they will help those fledgling organizations." Edward Ewen, director of

clinical information at Chairtiana Care Health Services a health care system in Wilmington, Del., said be hopes that the project can produce health standards that improve communication between RHIOs "The development of na-

tional standards would be a uneat relief to us. It makes the RHIOI much less risky," Ewen said. "One of our concerns is that we will develop comething that is not interpretable." Christiana participates in the state of Delawana's RAHO

which is called the Delaware Health Information Network Mark Jacobs, director of technology services and data center operations at York Paybased WellSpan Health said RHIOs need guidelines and standards to be able to exchange data. Most of the preminations to law he said have vastly different models for addressing governance and

financing, and defining the

measure performance," he said.

Conspiers to expend the pro-

gram later this year to meanure the

performance of primary care physi-

David Brailer, national coordina

for for health information technology

for the U.S. Department of Health

and Human Services, described

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measured to date

State of EMR

07, have or plan to pur 70 chains an EMR system

24% hitse a fully functiona 4 % are participating in a

services they will provide WellSpan Health, which operates two hospitals in Pennsylvania, participates in the Pennsylvania eHealth Ini-

Brother cald the recions will also try to find a way for statewide groups to eventually fit into a planned national health information network to securely exchange patient data

among hospitals, laboratories, pharmacies and physicians. In November, HHS awarded a \$1.6 million contract to four companies - IBM. Computer Sciences Corp., Accenture Ltd. and Northrop Grumman Corp. - to develop a prototype

infrastructure for a national health in formation network The HHS plan so far is focusing on encouraging health agencies to participate

in statewide RHIOs and to support national electronic health records programs by 2014. Brailer said.

"If it turns out we can't see traction," mandates are likely. he said. "We are beyond the point where this is optional.

The clock is ticking. To help boost the program, Brailer said his office is seekine funding of SU6 million in fiscal 2007, almost twice its

2006 budget of \$61 million To date, according to Brailer's office, approximately 66 RHIOs are either in the planning stages or already sharing data electronically.

Health Groups Use IT to Improve Patient Care employers are insisting that we

(HA) and invested helf of that in IT said Ronald Bangasser, Beaver HEALTH CARE PROVIDERS are taking on new IT projects designed Medical's director of external affairs to bolster their efforts to provide The IHA, a nonprofit collaborative botter care to potients

of physicians, health care systems Some providers are using their and health plans, lest year peid out 'ony for performance' programs SGO milion to physicians who met to help fund costly (T upgrades, quality standards. Many of the 225 according to speakers at the Health groups in the IHA are using the care information and Management rowards to update their IT systems Systems Society conference here said Bangasser, who is chairman of last week. Such programs use IT the fHA's technical committee. customs to measure the nector mence of physicians, and in some

Health-insurer Cigna Corp. is also using its systems to measure how physicians meet certain quality criteria. Under the program, patients make lower co-payments if they select doctors who meet the criteria. said J. Paul Oates, vice president ceived \$1.2 million last year from the of medical management system at Philadelphia-based Clong, "Our

pay for-performance programs and health IT as "first cousins Still, pay for performance can't be the sole motivator for increased IT styestments Brailer said, police that smaller practices may be at a disadventage. "Pay for performance and health information technology have got to be ubiquitous," he said - HEATHER HAVENSTEIN



NFWS

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the federal government's new plan to develop standards and suidelines to help in their grass-roots efforts. David Brailer national coopdinator for health information technology, said that over the next year, his office in the

U.S. Department of Health and Human Services will formulate guidelines and minimum standards for regional health information organizations Speaking to an audience at the Healthcare Information &

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State of EMR

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Health Groups Use IT to Improve Patient Care

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to help fund costly IT uco according to speakers at the H

to lower co-payments if they

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Korean Regulators Search Intel's Offices

----SATISTICATIONS FROM South Francis Fair Trade Commission paid an unscheduled visit to futel Corn's offices in Second early this month and ing additional documents as part of an approxime investigation into the compa-

m's business practices. The investigation began list fune when regulators required to company from Intel related to its dealines with Konean PC makers, including information about its marketine and rebase programs. Intel prevaled that the probe was under was in a filing submitted to the U.S. Securities and Exchange Commission last August

South Korea's investigation is on of several government emples involving total Last July, the European Commission raided Intel's offices in Swinden, England, and Munich as part of an investigation into the cumpany

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An International

IT News Digest

offering funds to PC makers there in each man for a commitment that they wouldn't use processors from its comnetitors in their systems

An Intel spokesman said last week that such scrutiny of the chip maker corner with the territory IN SUMMER LEMON, IT'S NEWS SERVICE

Australia Plednes Funds For F-health Projects

UNIVALIAN PRIME Minister John Howard has approved new fund-A Howard has approved to a million Australian dedlars (\$% million U.S.), to be provided jointly by the federal government and the country's states for electronic health initiatives.

During a meeting of the Council of Australian Governmonte that you hald been on Feb. 10, Howard and Australia's state premiers announced plans to use the funds to create a common language for elecsold in Tarwan in tronic health care communications. The money will also be used to set

up unique identifying

numbers for the country's

400,000 health care practitioners Officials said that the common communications I surrounce in during of no belo ensure the interpretability and security of electronic health records and to aid in Americation biomercal.

MICHAEL CRAWFORD COMPUTERWORLD TODAY (AUSTRALIA)

Prime Minister Pushes For Service Upgrades AUCKLAND, NEW ZEALAND

BELLIN CLARK, New Zealand's prime minister, last week called for new initiatives to ensure fastor Insernet access at more competitive prices in her opening address to the country's parliament for 2006. Clark's speech was viewed as the stronger indication set that the

country's relecommunications industry faces further regulation Internet users in New Zealand have connection and upload speeds that are too slow, as well as restrictive does caps, Clark told the parliament The prime minister said she is also unhappy that New Zealand continues

to lag behind many of the other 25 countries in the Organization for Economic Co-operation and Development in the reach of broadband services # JUHA SAARINEN COMPLITERWORLD NEW 25 ALL AND ONLINE

Bella Pictures of the outage

lem" for Milpitas, Calif-based

Phoenix Technologies Ltd.,

said CIO Clifford Bell Phon-

software and tools uses Sales.

force.com's service for its sales

Bell said he received a note

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from Bensoff that detailed

but I never have gotten an

Salesforce.com's plans to put

a store to the outages, "Funny,

e-mail from Larry Ellison for

Compiled by Mike Bucken

Briefly Noted

Paris-based MotionBridge SA, a maker of search technology for ters of mobile phone pets and their users. Microsoft, which sced the acquisition at the SM World Congress in Barcelo in, last week, class to com enRridge's tech own mobile search offering BURNERS AND LOG NEWS SERVICE

MVSCL AH said that it has secured SIR 5 million in its latest round of venture capital funding. The Uposaia. Sweden-based vendor of ope source databases plans to spend the money on product develop and an expansion of its sales and

rting operations. The inventors de the venture capital arms of O CHINA MARTENS IDSNEWS SERVICE

PMorney Chese & Co. plans to and its Glasgow-based Europ logy Center, a move that will add about 100 jobs there, according to Jack McConnell, Scotland's first ter. The center, which des and develops IT systems to sa the has about 600 eme

The Scettish government has a to spend 91.5 million (\$2.56 m.

Salesforce.com's CRM Service Hiccups Again

Launches Web site 1 te track outages and performance

BY MARC L. SONOWI In the wake of several service ourages in recent weeks. Salestorce.com Inc. has created a Web site to update users of

its hosted CRM software on system performance and any endorms it encounters. An outage earlier this month was the latest service disrupwir is affect customers of the Sat Crancisco-based company

which claims to have about 350 (100 subscribers The new Web page, called I vust Salesforce.com. is the

most recent effort by the com runy to calm users' fears. The site were live last work In an e-mail message, Sales-

ar's third quart

force.com CEO Marc Benioff said the site will offer users data on the system's performance, throughput and transaction rates. It will also provide information on the cause of any problems.

In addition's \$50 million overhoul of the bested system's infrastructure is slated to be completed this quarter The work includes the develop-

ment of a lead-balancine system called Mirrurforce that will prelicate data amone data centers so that if one gaes off-line, another can ammediately take over its processing The most recent service disruption, which lasted 81 mm utes occurred on Ech 9 Be-

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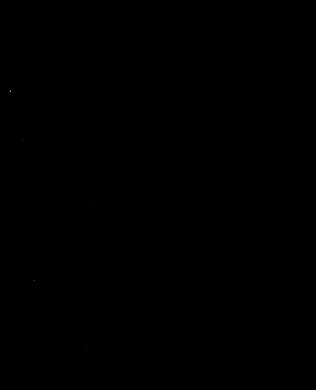
Timeline: Salesforce.com's Outages

any Oracle issues or from Bill Notification from the vendor Gates when there are Micros would help his company work soft issues," Bell said, adding through outages, Kramer said that he thinks Salesforce com-On the other hand, the outis working band to correct the was not a significant probproblems

"You have to wonder why this is happening," said David Dobrin, an analyst at B2B Analysts Inc. in Cambridge Mass. "Is it an artifact of their changeover to a more robust. deal data corner modula to it o size problem? Are they have ing the same problems with their handware and software vendors that other people freowently have

Dobrin noted that much of Salesforce.com's customer base is averse to working with 1T. Those customers, there-

iore, will be more aggravated by downtime and more willing to express their dissatisfaction than those who rely on internal IT resources, he said.



GLORAL

Korean Regulators Search Intel's Offices

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Australia's state premiers the funds to create a common language for elecrowie health care communications. The money will also be used to set up unique identifying

400,000 health care practitioners. Officials said that the common communications language is designed to belo ensure the intercovershilling and

security of electronic health records and to aid in Australia's biosurveillance projects MICHAEL CRAWFORD

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Briefly Noted

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CHIEF HAPTING THE NEWS CODING JPMergan Chase & Co. pie

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said the site will offer users data on the system's performance, throughput and transaction rates. It will also provide information on the cause of any problems. In addition, a \$50 million

overhaul of the bosted system's infrastructure is slated to be completed this quarter. The work includes the development of a load-balancing system called Microrfogo that will replicate data among data centers so that if one goes off-line, another can immediately take over its processing workload The most recent service disruption, which lasted 81 min-

utes, occurred on Feb. 9, Benioff confirmed in his e-mail Customers interviewed last week had mixed reactions to the latest outage. "Clearly, something is not

right in Salesforce land," said Tom Kramer, president of San Francisco-based Bella Pictures. which relies heavily on the service. Kramer said the most recent outage cut productiviry at the wedding photography company. In addition, he said. Salesforce.com did not notify

Bella Pictures of the outage. Notification from the vendor would help his company work through outages, Kramer said.

On the other hand, the outage "was not a significant problem" for Milpitas, Calif-based Phoenix Technologies Ltd., said CIO Clifford Bell. Phoenix, a maker of PC systems software and tonls, uses Salesforce.com's service for its sales

and marketing operations. Bell said he received a note from Remioff that detailed Salesforce.com's plans to pur a stop to the outsers. *Funny. but I never have gotten an

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any Oracle issues or from Bill Gates when there are Microsoft issues," Bell said, adding that he thinks Salesforce com is working hard to correct the problems "You have to wonder why

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SONY.

Lack of Support Slowing Spread Of Open-source Applications

But backers at conference say that enterprise options are on the rise

BY FRIC LAI

ALL of the virtues that backers of opensource software tout, widespread availability of enterprise-level support is not among them. In fact, a lack of support has been a deswhack for most corporate IT decision-makers when they look to add opensource tools to their software stacks, said a namel of users and windows at the Onen

Course Backness Conference here last week The panelists noted that mart from Linux vendors such as Red Hat Inc. and Novell Inc. the companies selling opensource software today are mostly single-product firms barely out of the start-up stare. Panelist Brian Howard,

porate planning and architecture at shapping firm API Ltd. in Oakland Calif, said the dearth of support actions lim its the ability of users to easily switch from one open source product to another - something that has been perceived

as an advantage of the techneway Howard contended that open-source users are effectively locked into products as a result of the scarcity of sur-

port providers "There are a lot more people standing in front of me who say they can support my .Net stack than people who say they can support open-source.

The panelists said that large companies are more likely to prefer the uncomplicated safety net of being able to turn to a single support provider in

"More of our customer are telline us they want to try property but that they bear

concerns," said renelist Philip Robinson, an open-son man mor in Houdest-Dackard Co's consulting group.

Small Suppliers Emerge HP and rival IBM are among the few large vendors providing enterprise support for neen summe software. At the same time, a number of small, third-party companies are emerging that provide integration, maintenance and

interoperating cortification for open-source applications. Some of those companies. such as start-ups OpenLogic Inc., Virtues Solutions Inc. Cignex Technologies Inc. and SpikeSource Inc., claim to of-

for all-in-one support that com petes with or complements the HP and IBM offerings "People don't want 150 support contracts they don't want

a lot more people standing in front of me who say they can support my Net stack than people who say they can support

open-source.

to have be seen in a 160 Web sites," said panelist Steven Grandchamp, CEO of Broom field. Colo-based Ovent ocic-Huwever, Grandchame added that the combine of some source support options for enterprise users is growing fast.

testor at the Town Education Agency, said he duesn't need a single vendor to support all of his open-source products. The department's open-source library includes Red Hat Linux the MySOL database, Eclipse development tools, the Anache With server and the Boot Noke content management system.

On the other hand Board Hemphill, a database adminis

The only support I'm interpreted in it for Part Uni Everything else Lean find on my own," Hemphill said, citing rums that resulted in personal responses from top vendor

Charles King, an analyst at Harmand Calif-barred Dund IT Research, said that such adhoc support isn't adequate for most large enterprises. "If a server at a college goes

down is means a subability for than a server used to crunch business applications noing down," he said. Moreover, King said, big

businesses tend to see working with small software vendors as both an inconvenience - because of billing and invoicing issues - and a finan-

cial risk.

senior vice president for cor-Continued from page I

Security

to a risk-based approach to vulnerability management over the past three years. As part of the effort, Stan dand Chartered has classified all of its core information systems on a value scale of high. medium and low based on their importance to its business operations and the disruptions or losses that would result from security failures. on them. Meakin said He added that the bank has developed similar measurements for threats and vulner abilities and the likelihood

that they will be exploited on each of its systems The approach has given Standard Chartered a much clearer picture of IT risks enterprisewide, Meakin said, adding that it has also helped the bank to better murshal its

As an example, he said that about three years ago, the bank was considering encryptine all confidential traffic moving over one of its WANs because of security concerns. But a metrics-based risk ussessment showed that such encryption was overkill. "I would say one of the

worst things I could do is spend too much money on security," Meakin noted.

Moving From 'Gut Feel Zions Buncorporation in Salt Lake City started using metrics as part of its IT security offerts about four years are The goal was to move away from relying on "a subject tive gut feel of risk" and get a more accurate view of threats. vulnerabilities and available security controls, said Preston

Wood, the bank's chief infor-

Methods for Calculating Security Risks

assess the value of IT assets, the vulnerabilities laced by those assels what measures are available the probable damage that would # egory that are under an acceptable

mation security officer "It's very much about mak-

ing sure you spend just enough lon security! - not more not less," Wood said. The metrics that the bank's security staff out in place have given officials at Zions a much cleaner niceum of the officetion. ness of both its tactical and

stratonic socurity officers according to Wood. He said the metrics have also been useful in settime the bank's business units to un-

STRATEGIC METRICS: Used to | TACTICAL METRICS: Includes I baseline measurements, such I as categories and numbers of II I assets, threats and vulnerabilities to protect them and at what cost.

If in important business areas. Also
They also let users look at the level

used to measure figures such as the of exposure to security threats and II percentage of assets within a cat-

> derstand the nature of the IT security risks they face Meakin acknowledged that setting both quantitative and qualitative security metrics can be a big challenge, given the dynamic nature of threats and the difficulty involved in set aching a Adhnita scalar to information assets.

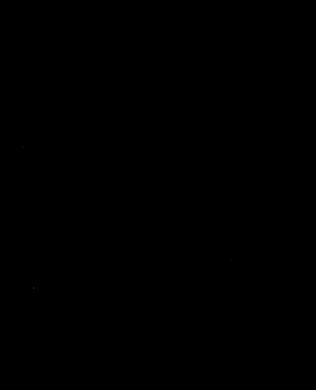
start doing it." said Dan Goer. chief scientist at Verdassy Inc. a Waltham, Mass,-based security software wendor. "This is

an idea whose time has come." Despite the challenges, it is possible to borin wathering and using metrics, Geer said. He added that the goal shouldn't be so much about arriving at specific numbers for measuring security risks but

shout setting a feet for what's important and why "I'm fairly certain that A is better than B and that B is better than C." Goer said. "I'm nor sure if I can say A is 3.2 Itimes. better than! B and that B is 6.9 Itimes better than IC " But that isn't even necessary, he said.

The key is not to make the whole process overly complicated, agreed Pete Lindstrom. an analyst at Spire Security

Security-risk matrics are simply a probability, based on logitimate experience of your network that some had activity is uoing to uccur." Lindstrum said P



Lack of Support Slowing Spread Of Open-source Applications

But backers at conference say that enterprise options are on the rise

t at t of the virtues that backers of opensource software tout widoenroad availability of enterprise-level support is not among them In fact, a lack of support

has been a drawback for most corporate FF decision-makers when they look to add opensource tools to their software stacks, said a panel of users and windors at the Open Source Business Conference here last week

The panelists noted that apart from Linux vendors such as Red Hat Inc. and Novell Inc. the companies selling opensource software today are mostly single-product firms harely out of the start-up stage. Panelist Brian Howard.

porate planning and architecture at shipping firm APL Ltd. in Oakland Calif said the dearth of support options limits the ability of users to easily switch from one open-source product to another - something that has been perceived

as an advantage of the technology Howard contended that corn-source users are effectively locked into products as a result of the scarcity of sup-

port providers "There are a lot more people standing in front of me who ssy they can support my. Net stack than people who say they can support open-source,"

The papelists said that large companies are more likely to prefer the uncomplicated safety net of being able to turn to a single support provider in

More of our customers

are selling us they want to try open-source but that they have concerns," said panelist Philip Robinson, an open-source manager in Hewlett-Packard Co.'s consulting group.

Small Suppliers Emerge HP and rival IBM are among the few large wenders providing enterprise support for open-source software. At the same time, a number of small, third-party companies are emerging that provide integration, maintenance and

interoperative certification for open-source applications. Some of those companies. such as start-ups Open) peic Inc., Virtuas Solutions Inc., Cigney Technologies Inc. and SnikeSource Inc. claim to of-

fer all-in-one support that competes with or complements the HP and IBM offerings. "People don't want 190 support contracts; they don't want

There are a lot more

people standing in front of me who say they can support my Net stack than people who say they can support open-source.

to have to monitor 150 Web sites," said nanelist Steven Grandchamn CEO of Broomfield. Colo.-based OpenLogic. However Grandchame added that the number of opensource support options for enterprise users is growing fast.

Hemphill, a database administrator at the Texas Education Anency said he doesn't need a single vendor to support all of his open-southe products. The department's open-source library includes Red Hat Linux. the MySOI database Eclipse development tools, the Apache Web server and the Post Nake content management evelum "The only support I'm inserested in is for Red Hat

On the other hand Bond

Everything else I can find on my own " Hemphill said citing his posts to open-source forums that resulted in personal responses from ton vendor

Charles King an analyst at Hayward Calif-based Dund IT Research, said that such ad hoc support isn't adequate for most large enterprises.

"If a server at a college goes down it means a whole lot less than a server used to crunch business applications enine

down " he said Moreover, Kine said, bie husinesses tend to see working as both an inconvenience

with small coftware random - because of billing and invoicing issues - and a finan-

cial risk.

senior vice president for cor-Continued from page I

Security

to a risk-based approach to vulnerability management over the past three years. As part of the effort, Stan dand Chartened has classified all of its core information systems on a value scale of high. medium and low based on their importance to its busi ruptions or losses that would result from security failures

on them. Meakin said He added that the bank has developed similar measurements for threats and vulner abilities and the likelihood that they will be exploited on each of its systems.

The approach has given Standard Chartered a much clearer picture of IT risks enterprisewide, Meakin said adding that it has also helped the bank to better marshal its security resources.

As an example, he said that about three years ago, the bank was considering encrypting all confidential traffic moving over one of its WANs because of security concerns. sessment showed that such encryption was overkill.

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Methods for Calculating Security Risks

mation security officer. 'It's very much about making sure you spend just enough

[on security] - not more, not less," Wood said. The metrics that the bank's security staff put in place have riven officials at Zions a much clearer picture of the effectiveness of both its tactical and strategic security efforts.

according to Wood. He said the metrics have also been useful in getting the bank's business units to un-

derstand the nature of the IT security risks they face

Meakin acknowledged that setting both quantitative and qualitative security metrics can he a big challenge, given the dynamic nature of threats and the difficulty involved in straching a definite value to information assets.

"But there's no excuse not to start doing it," said Dan Geer, chief scientist at Verdayys Inc. a Waltham, Mass.-based security software vendor. "This is

an idea whose time has come." Despite the challenges it is possible to begin gathering and using metrics, Geer said. He added that the goal shouldn't be so much shout on riving at specific numbers for measuring security risks but about petting a feel for what's important and why.

"I'm fairly certain that A is better than B and that B is better than C." Geer said. "I'm not sure if I can say A is 3.2 ftimes better than B and that B is 6.9 Itimes better than C.* But that isn't even necessary, he said The key is not to make the whole process overly compli-

cated, agreed Pete Lindstrom. an analyst at Spire Security LLC in Malvern, Pa. Security-risk metrics are

simply a probability, based on legitimate experience of your network, that some had acrivity is going to occur," Lindstrom said.



YOUR

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propt C 2006 favet for Al Right Resided fined the Road tigs or regulated batterate. This is you oper-integral and before your span oppose on teterantic of Read for, in the United Status and other countries. All their people batteraphs are the property of their together device.



The Eckert Tapes: Computer Pioneer Says ENIAC Team Couldn't Afford to Fail - and Didn't

The all-electronic system made its debut 60 years ago. In interviews taped in 1989, co-inventor 1. Presper Eckert discusses the technology behind ENIAC and debunks some myths.

THERE ARE IND CO. ochs in computer hissome before EMI AC and after FNIAC While there are controveries about who invented what. there's universal agreement that the Electronic Numerical Interrator and Computer was the watershed project that showed all-electronic dieital committing was practical ENIAC was unveiled Feb. 14. 1946, after nearly three years of development at the

sylvania's Moore School of Electronics. The two men most responsible J. Presper Eskert and John W Mauchh who together went on to build commercial vac and also founded

University of Penn-

one of the companies that mented to form Unisys Corp. Eckert died in 1995 I en corded two days of interviews with "Pres" in 1989, when he was 70 years old. My father was Eckert's best friend - as a child. ! played with his children, and I visited him recularly as an adult. I sat on the interview tapes for many years. but decided to transcribe them for ENIAC's 60th anniversary and release the text publicly. Excerpts from the interviews

How did calculating machines work before EMAC? Well, a

person with a paper and pencil can add two 10-digit numbers in about 10 seconds. With a hand calculator, the time is down to 4 seconds. The Harvard Mark L an electromechanical computer, could add two 10-digit numbers in 0.3 seconds, about 30 times faster than paper and pencil.

The ENIAC was the first electronic digital computer and could add those two 10-digit numbers in 0.0002 seconds that's 50,000 times factor than a human, 20,000 times faster than a calculator and I 500 times factor then the Most I For specialized scientific calculations it was soon factor

So It's a most that FIELD could be add, subtract, multiply and divide. That's a calculator, FNIAC could do throu-dimensional second-order dif-

ferential equations We were calculating fartillery) trajectory tables for the war effort. The trainstory tables were calculored by hundreds of people operating desk calculators - people who were called "computers." So the machine that does that work was called a

There's a story that ENGAC dimmed the lights in Philade when it was in use. That story is total fiction, dreamed up by

commuter

come lournalies Old the military guys working on EMAC salute the machine? An-

other ENIAC myth. ow many tubes did ENIAC use ENIAC had 18,000 vacuum tubes. The tubes were off-theshelf; we got whatever the distributor could supply in lots of 1,000. We used 10 tube

It is shocking J to have your life work reduced to a tenth of a square inch of silicon. J. PRESPER ECKERT

CO-INVENTOR OF EMAC



types but could have done it with four; we just couldn't get enough of them. We decided that our tube filaments would last a lot longer if we kept them below their proper voltage - not too high or too low. A lot of the circuits were off-the-shelf, but I invented a lot of the circuits as well. Revisters were a new idea. So were Interessor circuite

Are any of your circuits still in use in personal computers? No, but that's true of any first invention. Edison's original light

hulb bears no resemblance to a modern built. They do the same thing but with totally different components, Same with the computer. What did survive were the concepts, not the hardware. The idea of a subcoutine was original with ENIAC. Mauchly had this idea based on his knowledge of the inner workings of desk calculators, On Mark I. if they wanted to do a calculation over and over, they had to feed the same tape in over and over We invented ways to run the same subroutine without any mechanical input. The idea of using internal memory was also original with FNIAC

There's a story that some orre was receing around with a box of tubes and had to change one evare few minutes. Another much We had a tube fail about every two days and an appld become the problem within 15 minutes.

Was EMAC programmable? Yes and no. We programmed the machine by plugging wires in from place to place. That's not hard-wired; it's not software: it's not memory. It's pluggable programming. And we had switches to set the functions

New old were you? We signed the contract on my 24th birthday, May 9, 1943.

What prepared you for building an sisctronic computer? Remember, in that era Philadelphia was

"Vacuum Tube Valley," Radios and televisions were predominantly made in Philadelphia. I worked on primitive television at Farnewarth [Television] back as a teenager, and at Penn I had been working on various radar problems trying to measure the time for a pulse to so out and come back. All this is a good lead-in for building an electronic computer.

Was it you, or was it the times? Well, I may have been uniquely prepared. I was very good in math and I was faccinated with all electronics. I was

designing electronic gadgers as a kid. Maybe I had the right fusion of interests. But every inventor stands on the pedestals built by other people. If I hadn't done it romeone else would have. All that any inventor does is accelerate the process. The main thing was we made a machine that didn't fail the first time. If it had failed, we might have discou atted this line of work for a long time. People usually build prototypes, see their errors and try again. We couldn't do that. We had to make it work

When you were working on ENI did you have any inkling that these things eventually would be laptop-size and that everyone

the first time out.

would swm one? No one had any idea the transistor and chip technologies would come along so quickly. It is shorking to have your life work reduced to a tenth of a souare inch of silicon P

Randall is a professor of communication at the University of the Virgin Islands and director of the school's new computer communication laboratory.



BEA Systems Updates Former Plumtree Business Process Management Tool

New version includes links to AquaLogic collaboration software

BEA Systems Inc. last week unwelled a new version of a tool it acquired last year that it said can be used to build and manage collaborative business

The updated Aqual oric Interaction Process, previously called Plumtree Process Corner was added to the first product line following BEA's purchase of Plumtree Soft-

were Inc. last October Version L5 of the tool set is ightly integrated with RFA's AquaLogic Interaction Collaboration tool, allowing multiple people to use and manage documents and project information through portals, BEA

The software began shipping at the end of Jacquary. Andrew Reid, vice president of software development at Red Bank, N.J.-based home builder K. Hovnanian Homes. said his company plans to use the updated BEA tool to automate the paper-based processes for granting user access

to restricted applications and Reid said he expects the AquaLogic tool set to ease the process of moving requests

through supervisors and district managers. In addition, he said the updated version will let the company create the electronic records that are required by

the Sarbanes-Oxley Act Reid said K. Hovnanian, a user of the earlier Plumtere software, also plans to test the new version to determine whether it can be used to queue data updates - such

a home under construction That capability would let users view data that is compiled

when Internet connectivity fails or is unavailable, he said "We are finding ourselves using a lot more bosted solutions for different function. ality, so we need a basis for managing those integration Ipoints) in a partially connected scenario," Reid said. "It is a question of being able to work in a connected

and disconnected mode and queueing up (data) to be delivered later" be said **Extending Capabilities** The former Plantree tool extends BFA's business percent management (BPM) capabili-

ties beyond its traditional focus on the business processes of systems. The new tool models and manages the processes that workers follow, according to Christine Wan, RFA's direc-

The Acual oric Interaction Process software can attach collaboration documents to work items, map a business process to a collaboration project and allow users to partici-

pate in threaded discussions within a process The software can be used to create and manage processes for expense approval benefits administration customer management inventory raceaccording and sales cycle man-

agement. Wan said. "It is the first time that BEA is addressing the human work flow side," she said. Agual peic Interaction Process also allows business

analysts to model and derive a business process and to designate the roles for participants in a process. Wan said The tool includes a process execution engine that orchestrates the activities of users

Nimpate and search

Issue alerts when act and their roles with the backand mortom and is made on an ers when they have tasks that need to be performed.

Version 1.5 also integrates with BEA's AquaLogic Interacrion Collaboration product so tisers can share documents with others who need to work with a process by checking documents in and out 1



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RICOH: "

DON TENNANT

Getting 'Global'

RUE OR FALSE: If your employer has operations in multiple countries across multiple continents, it follows that you work for a global company. If you've read our special report on

globalization, "Navigating Global IT," which begins on page 23, you've no doubt concluded that that state-

ment is as falso as Crandpa's teeth. If you haven't read it yet, I urge you to do so. Because even if you already pet it, there likely are plenty of people in your organization who don't. And this is a great resource to belo you spread the message

Alfonso Cos, vice president for global supply network solutions at Procter & Gamble, nailed it when he said, "There's a big difference between being a global company because you have operations in many countries and being global because you operate globally." To accomplish the latter, P&G has undertaken a four-year project to standardize on SAP for its manufacturing systems in 40 countries and folded its disnorate IT groups into a single organization. Simply having a presence in those countries makes you international. but it isn't what makes you elobal

Gartner analyst Susan Dallas summed it up similarly: Whether a company is truly global depends on the degree to which its operations in different countries are doing things in common, as opposed to operating like a collection of companies with a headquarters that isn't much more than a holding company. I'd say she has something there. And she's in good company

I recently spoke with several members of the 2006 class of Computerworld Premier 100 IT Leaders who made it clear that they never would have accomplished what they have for their companies if they didn't set what it means to be global Steve Silverman, vice president of

IT for global operations at Bausch & Lomb is about two-thirds of the way through a six-year plan to standardize his systems worldwide on Oracle/PeopleSoft And it hasn't been easy. "We all know that when you have packages you've customized over 15 wars, it's pretty

hard to replace it with a generic package," Silverman says. Getting global consensus and buy-in to enable standardization is a monumental task, but one that can be accomplished with

a well-developed communications strategy, he has found. Fred Danback, vice president of global technology at a global financial services firm in Stamford, Conn., began work in 2001 on a shared services infrastructure for the company's 100

locations in 30 countries. Among the factors that made it successful was a willingness to adopt best practices regardless of where in the world they originated. "We can't say that just because it wasn't invented here in the U.S. it's not the best," Danback says. That might go without saying in theory. But it takes a strong IT leader who really gets it to put it into practice.

Moreover, it isn't inst about unifying platforms. Talk to Danback, and you'll understand that it's also about unifying people

"The things that motivate Americans are the same things that motivate people in other countries," he says. "They want progression, they want mobility, they want to be able to succeed and excel in their career." So as part of an aggressive expansion into India, Danback's company has opted against outsourcing in favor of hiring Indian workers and truly

making them a part of the company. We feel that there is a tremendous amount of potential for these people to move and grow within the organization." Danback explains. Talk about cetting it There's a lot more in our special

report. Go get it. 9



DAVID MOSCHELLA

The Truth Is Out There, On the Net

VER THE past few weeks, there have been two front-page news stories that force us to take stock of the effects of the Issue net on what information we are and aren't allowed to see. This debate is more relevant to corporate America than might initially be apparent If you follow current affairs at all

and certainly if you live, like I do, in London, you can't help but be absorbed by the great cartoon debate it's everywhere. While Europeans try to understand how and why 12 drawings in a Danish newspaper sparked such a fierce elobal reaction. From an Internet perspective, there are broader lessons regarding information access

responsibility and «elf-censorship. The debate in the U.K. has been particularly instructive While publications in Germany, France, Norway and elsewhere have for various reasons decided to reprint the controversial cartoons, the

normally freewheel ing British press has not, again for a mix of

reasons, some more admirable than others. But as a sort of compromise, many leading British publications have simply provided a link to one of the numerous Web sites where the cartoons can be seen.

This sends a very odd message The same media giants that so often dismiss the public loternet as a dannerous wilderness are now basically saving that the Net and especially blogs are the place to go if you want

the whole, uncensored trut Halfway around the world, we had a similar compromise. China's desire to control what its citizens can and can't read put Google (and others) in a no-win dilemma — either set

aside your owo beliefs and practices. or miss out on the Chinese market

altoeether, As you know, Google (and everyone else) has put business first. So in this case, the result was that for people in China, the Internet became vet another place to see a partial, censored truth. Not a great message either.

But before throwing stones at Google, the press or China, take a clos er look at your own house. Does your company's Web site provide the whole unvarnished truth? Of course it doesn't. Companies don't think twice about providing exactly as much "truth" as they think serves their interests: they hire huge teams of marketing, public relations and investor relations people skilled in the art of self-serving communication, and they remind employ-

ces to be careful about what they say. What makes the Internet unique is that it can byposs these machinations and compromises. The Net provides ao unprecedented global voice to any would-be whistle-blowers or oth ers who want to expose information that the powers that be deem best suppressed. That some of this truth is often lost among the Web's mare frauds, cranks and conspirators doesn't change the fact that the Internet is likely to remain the one place where accurate, unvarnished information is broadly available, especially when a Web-based source is endorsed by established, "reputable" media

Companies' reputations are more fragile than ever before, and also more important. But the major media only occasionally focus on the much about any one company or industry. This leaves lots of room on the Internet for other voices to be heard. You might want to link to them; you might wish you could blot them out. But do you even know who is out there and what they are saying?

THORNTON A MAY Entering the Age of Big Information

ISTORIANS WILL ultimately come to a consensus on what to call the days between the frenzy that was the dot-com bubble and the period we are now on the cust of entering. I call this brief blip (1995-2005) the Age of Little Information,

Loome to this label no because the age exhibited a lack of information Ouite the contrary: it was during

this period that information - previously locked away in analog form - became widely digitized. All this newly digitized data had little impact on behavior.

We learned to our lament during this era that digitized information doesn't necessarily mean managed or acted-upon information. We are now ex-

iting ao era of undermanaged and onlyoccasionally-acted-upon information and entering the Age of Big Information. a more active, intense and ageressive era, in which we will be held much more accountable for our data management behaviors. In the Age of Little Information we were data separations. In the Age of Big Information, we will have to

become knowledge carnisones. In this new age, there will be a lot of information. Working with epistemologists and library scientists and archivists. I have estimated that information to the tune of approximately 1 500 Library of Congress collections tover 10 petabytes) enters the global data stream every day.



In the Age of Big Information, we are moving completely away from the once-a-day-ness of the U.S. Postal Service and the 6 pickeck news to the always-on-ners of e-mail and cell phones. Even the staid Census Bureau, which since 1790 has undertaken a decennial count of the U.S. population has accelerated its information metabolic rate, conducting consumer of economic activity and

state and local governments every five years, and more than 100 other surrous every year. The American Community Survey will soon arrive monthly Another difference in the Age of Big Information is that a much greater array of powerful took will be available to manage and manipulate this everexpanding information base, allowing

us to derive meaning from it all. But the biggest difference - and I am sorry to throw a monkey wound into Nicholas Carr's personal wealth engine - is that because there is more information and there are more ways of

knowing, there will be more competitive advantage to be generated from the informed and creative management of

information and information technology

In the Age of Little Information scads of iPod-ers blithely toted orders of magnitude more computing power than that which carried the Apollo astronauts to the moon, a fact that most of them failed to appreciate. Steve Jobs can rest assured that the illock is insanely great technology, but it represents passive information management In the Age of Bir Information and will be surrounded by tools of mass instruction. Knowledge tools will be see the canability of delivering all the smartness of the planet to a device that fits in the palms of our bands. What are you soing to do with all this capability?

In the Age of Big Information, we will be awash in information as you are today, but we will begin to improve our ability to make use of all the information that is deluging us. Increasingly your success in business will denoted on the facility with which you and your enterprise can connect and then convert heretofore unimaginably large. complex, litigable and accessible sees of data into action that is timely and appropriate to the context of the infor-

mation I WANT OUR OPINION?

More columns and links to archives of previous columns are on our Web site.

READERS' LETTERS

Opera Holes Were a Phantom Menace

FIND IT quite strange that you deem a security rouse that was properly fixed almost six months ago interesting news ("Opera Struck by Hidden Hole "Commitenworld.com, Dec. 141 In the article, the author uses

the present tense for something that should have been past tense throughout. He suggests updating to v6.02, when the current version

of Opera is v6.51. And he tails to adequately discuss that internet Explorer had the same valueability, which it took Microsoft six months to fix, whereas Opera fixed it within a month. (That is why Secures delayed publishing the Opera advisory for so long() The author fails to mention this discrepancy in the way that

The use of the wrong tense misloading update information gract same flaw in other products and laiking to comment on the seriousness with which they were freed creates an acticle that is both unter and misloading lan Andolina London

Puzzled by FTC Spam Assessment

AYBE TECHNICALLY, on a national average, the statistics show that spam has gone from 77% to 68%, as stated in the article "FTC: Computer Users Seeing Less Soam, Law Helped (Computerworld.com Dec 201 but my first reaction was, "What rock are they hiding under?" My

company's decrease has been due security is treated by the two to implementation of additional systems to filter, scan and prevent spam from reaching the desktop. But for every filter applied, the minimizing the discussion of the Sparrmers create a new variation

and we still and up with more and in our e-mail than should be dealt with on a normal basis. Add to that the exponential growth of mahapre and the time and cost dedicated to fighting these threats are on a drestic one not a decrease The CAN-SPAM Act may have had a mormal effect but it's bardly

making a dent and definitely won't keep up with the offenders. Dovid Burnel

Randy Thomson CIO, The Sedona Group. Fort Worth, Texas Moline, Ill., dhurzellas sedonagroup.com

THE FTC might be seeing less spam, but I'm not I manage a couple of small Web sites and have a few personal e-mail accounts. Local sust as much source today as i did ben wars son I don't know sust how the FTC measured the amount of spam being sent but they couldn't have done it at the ISP invol. This is where a tremendous portion of soom is No lered out, so that customers never even see it. That doesn't mean it wasn't sent, however Lee's Surrout, Mo.

H MM. I can either send opt-out messages that the legitimate 4% will honor, or avoid conforming my e-mail address to the 96% that are ifegal sparreners. What to do what to do?

COMPUTERWORLD welcomes comments from its senders. Letters will be edited for bravity and clarity They should be addressed to Jump Eckle, letters editor, Computer world, PO Box 9171, 1 Speen Street Framingham, Mass. 01701. Fex. (508) 879-4843, E-molt Inthusil computerworld com, include an address and phone number for im-

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Balancing Act Global enterprises need standard processes. IT pros like Pat Smith Fernandez of Stiefel Laboratories offer Global Gotchas How to svoid hidden traps in international laws

Blind Spots Uncovering the holes in your global supply chain.



CIOs (Should) Rule

On the global scene a good CIO is a far better asset than a good CFO. says columnist Mark Hall.

UROPE is a [regulatory] minefield. You're probebly breaking some rule." at was the blunt as nt of John Parer at Cape

ng at last year's Premier 100 I'I ers conference. You know about ope's strict privacy regulations (I e), but how about labor laws that make it exceedingly

difficult to fire or lay off employees? And did you know that, in France, Germany and the Netherlands, you must conwith powerful "work councils" before

- reorganizing or relocating eme This special report - with add al articles online at Computerworld.com
 is full of "didja-knows" like that. For
- example, did you know the following?

 In Mexico, throwing documents on
 the table is considered highly offensive.

 In Taiwan, a signed contract isn't
- necessarily a final agreement. In India, it's better for an American to hire a local driver than to drive him-
- self on the chaotic, congested roads Besides the cultural and legal issues of going global, there's the governance age of figuring out how much ntrol beadquarters should have wh tting IT standards and how much ld be left to foreign offices. Just etting everyone in various cou

to use the same product codes for the company's consolidated finance and sales systems can be a big headache. All of these topics and more are covered in this guide to global IT opera-tions. We hope it will reduce the num-

ber of surprises you'll face — though it could never eliminate them all. • Mitch Betts is Computerworld's execu-tive editor. Contact him at mitch_betts@









IT managers at multinational companies must manage a surprising array of governance, legal, personnel and cultural issues - diplomatically.





Global enterprises need standard processes. Here are three approaches for creating equilibrium. **By Stacy Collett**

T STEMED like a reasonable request. Six years ago. Pat Smith Fernandez, corporate vice president of worldwide IT and MIS operations at Stiefel Laboratories Inc. directed every business unit in

the company's 30 subsidiaries in six countries to use a common code in its financial and sales systems for each of its 2.500 products. Stiefel is a pharmaceutical company that specializes in dermatology. It was the first test in a plan to elo-

balize IT and business processes in a company that, until that time, had allowed each of its five geographic areas to do their own thing. Common global product codes would make it easier to consolidate financial information and product sales worldwide. But employees abroad didn't see it that way

For starters, Stiefel's subsidiaries already had their own product codes What's more, they didn't understand the value of the information that could be gleaned by consolidating financial and sales data. It took three wars of forums and discussions to get the product codes consistently adopted worldwide, and it served as a valuable lesson for Smith

'One thing I've learned is that topdown-driven standards and proce-dums will not not adopted." Smith save You need to sell, not tell, and the best way to sell is for them to own it."

These days. Smith takes a groundup view of governance. She now sets target dates for adopting new standards and lets the IT staffers in each prographic area come up with a migration plan based on their own priorities Governance is now created by people who use it," she explains, "I haven't had any problem with adopting the standards or all

Such is the balancing act of elobalization. As more companies expand offices, distribution centers and manu facturing facilities abroad. IT execurives are faced with the challenge and frustration of petting all employees around the world to do things the same way — from IT to business staffers. Long-standing regional practices, executive politics and a lack of clarity about what the business is trying to ac-



lish are major roadblocks, accord-

ing to Gartner Inc. analyst Susan Dallas who says that about 60% of companies fail to creste effective governance Too often, "senior management will say they want to be one company with one product line and synergy across the group. But they want local autonomy, too," Dallas explains, "They give no clear direction on what should he local, regional and centralized," In

other cases, governance translates into CIO issues. "Senior business executives get bored with it because they don't understand why they're involved," she adds.

Dallas advocates a governance plan that gives more process ownership to each region while major platform decisions are made at headquarters.

Balancing A

Global vs. International

Large comparise may claim to be "global" operations, but have do you spet the important? Some U.S.-based those working the global benner recently own authorities whether the second states.

"There are nime companies that any time tenes can product out. Line Coins, is example - they absolutely, rediginarly quared that beamd," which notice Cocolocks in twing toleral company. Deline may that they dis occupate they must in apto-reacted differently in different regions. That requires a different, exploitations.

But some U.S.-based global companies have tweaked that model with success. Here are three different approaches to

Headquarters-driven Companies New York-based MetLife Inc. follows a headquarters-based governance plan for its main systems. The insurance company just completed a licountry rollout of a standard moducet-

THE TENDENCY TO 'AMERICANIZE' But some North American comparism with a foreign presence might just have their resons on buildings in, our, Singapers and Moscow. The various region operations register and some of the series products, but if each one is self on its own

global," she nays.

The literan text for Daller: "How much are they maily doing things in common, or how much does it test the a collection of companies where the headquarters is just more or less a holding company?"

illustration system for sales agents and a data entry system to capture policies at their inception electronically rather than on paper. All the information is captured in common databases in Singapore and Latin America. All global offices also use the same self-service noortals from Beavil and suprosset un-

derwriting systems from the U.S.

To arrive at these standards, IT staffers from each region collaborated to decide on the best technology. "Once than's done, it's cast in concrete. We don't change it." says Stephen Bozzo, Met Life's international CO.

The governance plan works because IT leaders spent a lot of time abroad explaining what they were trying to accomplish Borro adds. The local offices were also given direct accountability for managing several aspects of the project and providing business input. Foreign offices have control when it comes to product decisions, such as whether variable universal life insurance software or pension software should be rolled out based on demand for the product, return on investment, time to market and regulatory issues. "That comes directly from the business. based on its own country's busi plan, which is fully vetted in the U.S.

as well," Bozzo explains.
So far, Met Life's governance strategy
has been well received at its foreign
offices, including those added last year
after Met Life acquired Travelers Life
& Annuity and its international subsidairies known as City Insurance, "You
need to collaborate, but not necessarily
agree," Bozzo says, "Be a good listenser

early on, and make sure you truly are aware of all the concerns your partners have — not just colleagues, but the windor community."

Regional and Local Say-So Executives at FedEx Services Inc. lead

the drive toward IT standardization in 220 countries, where is languages as spoken. But IT representatives from each of FedEx's five regions are 'equal partners at the table' when decisions are made, says Don Gibson, managing director of IT at FedEx's office in Irving, Texas. "The regions have a lot of say-so when they have to deal with local IT.

regulations, laws and requirements.

Many regional best practices have been adopted as global standards. The company's European operation, for instance, manager language translation with software from Tradou Inc., which was acquired by British company SDI. International last July. Once a word is translated into Arabic, Chinese or Sonish, it's saved in a database to be

automatically recalled for future translations.

"We've made that a standard at FedEx— across the company and FedEx-om for translations. We've lateredy seeing some big savings." Gibson systostoware upgrades that once had to be translated into 18 languages each time at 10 cents to 20 cens per word can now be partially translated through the software. Only new words require to 10 the control of the control of

The Hybrids The Boeing Co. has employees world

wide, but it also has a complex web of global partners that provide services from aircraft design to construction of fitted ages

THE VIEW FROM GERMANY



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—Communicati From I M

It is best to avoid meetings in sty and August, which is when those th children are almost obliged to their aversal vacation. Executive Panet.com

 Humor plays an important role in humanous discussions; having a reportoire of johns and anecdotes can be an asset, and good recenteurs should make the most of train talent.
 Construitions com

The aeronautics giant is undergoing a major transition to simplify business processes, including a plan to go from 3,500 systems to 500 common systems built around six lean business models. "Our simplification strategy has been omake Boeligo one global enterprise. That does not mean that one process first all "away (15) Scort Ericking. This.

cago-based Boeing still mass work with the progesses of its global partners. "The Boeing simplification effort sinchades wherever employees work, but the model looks different because they rely heavily on partnering with companies around the globe. We're not saking them to change procedures, Griffin explains. But he adds that some partners have moved to Boeing's engineering design software voluntarily to

Dallas says that although regional programane in difficult to define; it will emerge as the dominate global model a 2006. However, "you'll see some pushbock on governance initiatives because people in bustiness units are failing to understand why it's important and why they aboud be involved." Dallas says. It supports the entire years of the programment of the programment

Collect is a Computerworld contributing writer, Contact her at Steallettiliaal.com.



Global vs. Internationa

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There are some companies that say thry have one neighbot set I do Doke for example - they absolutely, religiously quart that brand "which makes Coca Cola a truly global company, Dallas says But they do recognize they need to go to market differently in different recovers That recures a different, sophesticated

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sses according to Gartner analyst izing "not Americanizing, says Don Gib son managing director of ST. "We take the he U.S. is also good for Japan or Europ
He points out that some global decns can be made based on parallels be states. When looking at a product's return domestic products of Britain, Germany France and Italy match up very closely in Florida " Gibson saus "Pecole can build a case on concentrating sometimes mor

So far. Med ife's governance strategy has been well received at its foreign others, including those added last year after Metlale acquired Travelers Life A Angunty and its international subsidraries known as City Insurance, "You need to collaborate, but not necessarily agree," Bozzusays, "Be a good listener

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Liverities at hell's Services Inc. level

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THE VIEW FROM GERMANY

In a big global company like ours, there is an urgent need to make sure that we have idends in place. Otherwise, the communications and infrastructure just won't work," says Frank Buchner, vice president stonoCoM to Titmemorisysb ten

Deutschland Inc. in Munich "On the other hand, there are many incal requirements, such as payroll and taxes where it's not possible to have everything standardized," Buchner says. "I think the key is to have a good medure. to make sure that you cater to the needs

of the local country without breaking the boundaries of the global standardization JOHN BLAU EUROPEAN CORRESPONDENT, IDS NEWS SERVICE

DOING BUSINESS IN THE ILK

U.K. Igunst agencies provide a rating system for hotel and muest accommodistures including bed and breakfasts. Hotels receive between one and five stars: quest accommodations get between

one and few diamonds Punctuality is essential at any busi ness meeting or social event.

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Culture

Closing gaps between different worlds is crucial to building team trust.

By Mary Brandel

NVONE who has ever worked on a global IT team has a cultureclash story to tell. For Rick Davidson CIO at Manpower Inc., it was the time he and a male co-worker were waiting for an elevator in Japan, along with two

laturese female collegues. When the elevator arrived, the men looked at the women as if to signal for them to enter, while the women - following their own culturally embedded rules of hierarchy that defer to men. especially male guests - simply looked back at the men. "The doors opened and closed, and no one got in

the elevator," Davidson says, "When we realized what happened, we agreed to a compromise - they would enter first on the way up, and we would enter first on the way down." And Fred Danback, vice president

of global technology at a global financial services firm in Stamford, Conn. will never forget the time he started a meeting with his company's new Swiss acquisition by professing his two-year vision for the corporate IT infrastructure. When it was the Swiss staffers' turn, they not only presented their own technology plan, but they also backed it up with slides and architectural

diagrams. "They probably already had the impression that Americans were an arrogant lot that would try to come in and steamfull them, and

I probably met that expectation," he save Then there's the Indian firm that recently sent a greeting

card to co-workers workhwide with the image of a swastika. an ancient and sacred symbol in that country. "Many people went ballistic," says Gonal Kanur, founder and president of the Center for Project Management in San Ramon Calif In fact it rook five managers hours of telephone conversations and many

e-mails to calm the waters. The work of 14 international team members came to a halt for more than II days, delaying the project and costing thousands of dollars. From the humorous to the offensive.

from startling to subtle, there are an infinite number of misunderstandines that can arise when people from different cultures merge on a project team. And while some of these misunderstandings are obvious and surface quickly so they can be resolved on the spot, others are more difficult to detect. resulting in lone-term trouble. like endemic mistrust among team members.

You need to get beyond the superficial layer of what we think we know." says Lu Ellen Schafer, founder of Global Savvy, an international training and consulting firm in Palo Alto, Calif *tex important to understand what's underneath the surface - why your e-mails

IN HONE KONE

aren't being answered, why people are telling us 'yes' when they mean 'no.' why there's silence on the phone dur-

ine a teleconference." Although the gans can't be avoided completely, it's crucial to raise awareness of the cultural divide to build at least part of the bridge before you try to cross it

Separated by Language Because English is the international

language of business, many misunderstandings are bred by the use of idioms acronyms, slang and other sayings that are culturally specific. "You can imagine sitting in a meeting, and someone says. 'Give me a heads un when issues arise," Schafer says. "Everybody says. OK, but when you ask them if they know what 'heads up' is, they say no." While it's difficult to eliminate slang, companies should train global staffers to sneak a *neutralized, denuded and precise English," suggests Erran Carm el, associate professor and chairman of the IT department at the Kogod School of Business at American University in

Washington. So instead of "Let's wrap up the project by June," say, "Let's complete the project by June," he suggests. There are also more formal approaches. At Sunterra Corp., a resort company in Las Vegas, Norbert Kubihas develops Continued on page 28



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Notes of the control of the control

Continued from page 26

a plossary for multinational projects containing industry-specific language that differs from country to country. Karur succests employing a documentation manager to search all documents for local nomenclature

*IT terminology is relatively unique. sal: however, this is not true for busi ness terminology * Davidson says For instance in some countries the word deployment is used to describe the user testine stage, not general release. To overcome that. Manpower has created an IT governance system dubbed "The Mannower Way" It describes the processes, methods and tools used to anage projects, people, assets, invest-

ments and hadoute But sometimes it's nearly impossible to make an interpretation without being intimately familiar with the culture Danback only recently realized that the British "cheers" means more than goodbye: it also indicates that the speaker els the conversation west well

And in India, when you ask when mething is going to be finished, don't hold your breath when you bear "10 to 15 minutes," as Avi Huber, an Israeli software engineer who has worked in the U.S. for eight years, discovered. *It just means. 'We're working on it and we think we have a solution," he says. Israelis and Americans can have

their own miscommunications. When a colleague of Huber's was called into his manager's office because of a big problem, the colleague responded with No problem!" Although it sounds blithe, the term is actually a direct translation from Hebrew that means, "I'll do whatever needs to be done." Huber save. Glitches can even occur amone coenkers whose first language is English. "If a British person says, 'That's

interesting, it can actually mean be DOING BUSINESS IN INDIA

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 Have your business card transiets Russian (with Cyrillic text). ve serned. - ExecutivePlanet.com

thinks your idea should be trashed." explains Jay Crotts, CIO at Shell Lubricants/B2B in London, part of Royal Dutch Shell PLC Americans are similarly guilty of not saying quite what they mean. For instance, two words in U.S. business-

speak - "issue" and "challenge" are actually code words for "problem" or "difficulty," but their loaded meaning would be lost on a popparive speakee of difficult road and tra ons, many Americans who visit

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er of English Carmel care Eastern cultures can be even less direct, particularly when it comes to

saving no. In Japan, the most negative response you would hear would be something like "That would be difficult," says Mike Rosen, practice direc tor at Cutter Consortium in Arlington. Mass. "We might interpret that as. Buck up and do it." he says. Similarly in China "We'll consider that" is a polite way of saving, "We'll allow you

your opinion." Kubilus says Rules of Engagement

In the hierarchical cultures of Asian countries exects and concriors are never corrected in meetings or telecor ferences. Even if you asked "Can we move ahead with this plan?" you might hear "ves." but that simply means you're senior to them and they can't push back. Crotts says.

In India, a "no" might sound like, "I'll try to get to it on Sunday," Schafer says. Many people in Asia think they're preserving the relationship by giving us what they think is a soft no," she says What can cause more confusion is that workers in India aren't culturally compelled to close the loop, because in their minds, they never committed to a

With so much room for misinterpr tation, it's important to play it straight with both speech and body language Keep your vocabulary basic, and avoid jokes, Rosen cautions, as they never translate. Doo't use a lot of hand ges tures - a thumb's up and the OK sign are obscene in places like Brazil, Australia, Spain and the Middle East.

"Since gestures have different mean ings in different parts of the world, they can cause confusion," says Terri Morrison, president of Getting Through Customs, which provides books and seminars for international travelers. This is particularly true in "high context" cultures such as Japan, France and many Arab countries, where important information is transmitted in nonverbal or indirect ways, in comparison with lowcontext cultures such as the U.S., U.K. and Germany, where most information is transmitted verbally. It may seem basic, but you should

also speak slowly, since many in the audience may not speak English as their primary language, "We don't think of ourselves as having an accent. but when I ask people in India what is hard about communicating with Americans, they say accents," Schafer says. Confrontation is also treated very differently throughout the world.

The Scheduling Puzzle

www.computerworld.com

Continued on page 30

COMPANIES
THAT RUN
SAP HAVE
32 WORE
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THEIR STAFF
WIEETINGS

A necess study of companies listed on NASDAQ and NYSE found that companies that run SAP are 32's more profitable than those that don't? Pact is, SAP software solutions unable businesses of all sizes more efficient. Too more listed assessment of the size of the same solutions are solutions and assessment of the size o

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Don't Be the Ugly American

recisin your opinion," they often den't at all," he says, "An lura could say, "Thei's lauf, and this is what I their, "but with an Acco an, it would take a long time to get to their point."

T'S A BIG WORLD OUT THERE

Continued from page 28

Whereas workers in the U.S., Germany, the U.K., Australia, Scandinavia and Israel are comfortable vocalizing contrary opinions, even in the presence of

concriors. Asian workers are less so When Americans work with India. China or another Asian country, they make the assumption that people will speak up in a meeting or conference call — and they will if they're in a position of power," Schafer says, "But if they're not, our questions may be met with silence." For that reason, problematic issues should be discussed privately in one-on-one conversations. "Conference calls are good for dissemination information but not for discussions of what is not working," Schafer says.

The situation is quite different in Israel. Meetings there can involve lots of shouting, but "it's nothing personal - once it's over, everyone's friends

again," Huber says. And while Americans have no problem jumping into a business discussion as soon as a meeting begins, it's considered insulting in places like the Far Fast to begin negotiations before socializing and forming a relation ship, even if that takes days. Kubilus says. Similarly in collectivist cultures such as those of Spain, Italy and Latin America, it's important to build a relationship first and let that dictate where business decisions lead. Davidson gave. Individualistic cultures like in the U.K., the U.S. and Germany are more interested in getting the task done and building the relationship later," be says. But unlike in the U.S., where relationship-building may happen as much in the office as outside it, Danback has found that in Europe, business offices are not considered social settings. In countries such as France, where people work strict 37.5-hour workweeks versus 50 hours or more in the U.S. "there's a time to socialize and a time not to " he says. For instance, banchtime and right after work are more acceptable times

for building relationships. Cowboy vs. Engineer

Another area that can lead to mistrus is in the different approaches toward software development. Americans tend to take an iterative approach toward programming, which is part of what Rosen calls a "cowboy culture," while Europeans, porticularly German and Swiss programmers, tend to be more rigorous and process-oriented and manage to a spec that doesn't change

"They can get tremendously frustrat ed that we don't have details worked out ahead of time, and we might think

Tahwan is subject to strong narthquakes that can occur anywhere on the intent. Tahwan is also bit by typhoens, unsully from July to October. - U.S. December of State

When doing business in Taiwan, you should never assume, as you might in North America, that a signed contract is a final agreement. In Taiwanese business culture, it is commengated for aspectations to continue after a contract

they've buried themselves in minutiae," Danback says. His firm has paired the engineering-oriented staffers with the more creative and iterative people. Another approach is to compromise, Rosen says, and follow a formal process with standards and guidelines but including an older person in your deletion is eccential. This culture respects a and status, so sending a secier repsolutive shows that your organization serious should startline the incidental conparison should startline.

When you are paid a compliment during a conversation, respond by insisting that you are not worthy of suci

Since the Taiwanese work offsic is exceptionally strong, be prepared to face 12-to-15-hour workdays.

with fewer steps than the Europeans might ordinarily incorporate.

These types of differences can even exist in the way people view meetings. In some cultures, people come to meetings prepared to discuss their opinions, having reviewed all materials and the veloped calculated positions, Davidson says. In other cultures, people expect meetings to he more spontaneous. "See ting expectations before the meeting regarding preparation and the desired outcomes can improve the productivity of the meeting and minimize the cul-

tural friction that can occur." he says. But the make on-break factor for reffective global teams is how well they collaborate. "You have to stop making assumptions that people understand, what you men and get some werification back to be sure they interpreted it correctly." Rosen says. Many people use collaboration tools such as Wiki-Web from WikiWeb Inc. or Microsoft.

Corp.'s NetMeeting or Groove. Schafer encourages lots of one-onone communication in which people exchange instant messages while they are talking on the phone, since people are often better at reading a foreign

language than listening to it.

And, of course, nothing substitutes for personal get-togethers. At Sunterra,

Kubulis is kicking off a major project to migrate the company's European officest to a new enterprise system by getting U.S. process owners together with their European counterparts to create empaful between the two groups. If if don't spend that time upfront, when I get to imm/memation, ritaining and user ac-

cepsance, I'll he in trouble," he says. It will also awaken people to the reality of cultural differences, because one of the biggest enemies of a welloided global protect team is denial. "I often find people who say there are no cultural issues on their global teams, but I think it's because they don't associate the problems that crop up with cultural difference," Carmel says.

Indeed, says Crotts, 'if you ever think you have the diversity journey figured out, you soon find there's another hill to climb or plateau to reach." • Brandel is a Computerworld contributing writer. You can contact her at marybrandel@werizon.net

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If supports and control, the Opining one that run the business

software



How to avoid hidden traps in international laws. By Mary K. Pratt

for expansion: Buy a competitor and use its equipment and your own people to grow the business

It's a straightforward plan, and one that's put into motion all the time. And although layoffs are an inevitable part of the transaction, dismissed workers rarely derail the plan - at least not in the U.S. But in Europe, where labor laws demand many more concessions from companies looking to shed jobs. they just might.

Such are the unexpected dangers of doing business around the globe. Seasoned managers are well aware that laws and regulations vary from country to country, set lawyers and IT executives acknowledge that there are some areas that can trip up even experienced pros. They range from navigating the nuances of labor laws to negotiating procurement deals. And although CIOs are reluctant to admir their missteps, experts say many companies discover legal traps only after they fall into them.

That's all the more reason to get a bandle on potential pitfalls in advance. experts agree. "When you have a team around the world, you have to know exactly what laws you're dealing with." says Stephen Pickett, a CIO and president of the Society for Information Management. Here are seven key areas to watch

out for.

LABOR RELATIONS
Lawyers point to labor as one of the thorniest issues facing American executives working in Europe. And if you think only HR execs need to worry, you're wrong. CIOs who are downsizing or outsourcing could easily find themselves in tricky situations Melise R. Blakeslee, an attorney in the intellectual property, media and technology transactions group at law firm McDermott Will & Emery LLP

in Washington, says one of her clients learned that the hard way The U.S.-based Internet services company bought a European counter part, with plans to replace the Furopean workers with its own. But the IT workers at the European firm quickly pointed to their legal rights, and in the end, the U.S. company had to hire some and pay off others.

Some CIOs are also surprised by the presence - and power - of staff or work councils, says Jay Crotts, an American who works in London as CIO

Continued on page 34

SHARP.



Any MFP can print colorful growth charts. How many can actually help you achieve them?









Ioin Forces With Legal

but his talks with least follow were over 10

ently. The chief com er is about four doors down from my office, so he forcus where to find me and I cross where to find him," says Krueger, the ased CIO at Votco International Ltd., a Landon-tessed supplier of product and services to the upstream of and gas

per credits this open-door policy w him deel with the legal requirement ng with other executives, Keyege's in policies, security and data protec eds, and corporate govern

too's prouctive approach is extravable f not typical, experts say.

This very important today that the CIO be integral part of the company's fear of lance people, but we find that they be-ly aren't. Unfortunately, what happens in the real world is that companies decover this only when they have a problem," rows.

Continued from page 32 of Shell Lubricants/B2B, part of Netherlands-based Royal Dutch Shell PLC. "If you want to do a reorganization (or) downsizing or change the terms of their employment, such as location, you actually go to (the councils) with the request for advice," be explains Employee councils, which enjoy par ticularly strong legislative support in France, Germany and the Netherlands, can come back with support for a plan or questions about it. They can even delay action, Crotts says.

PRIVACY

2 PRIVACT
European laws require much higher levels of data security and privacy, even as they apply to accessing employees' information. For CIOs familiar with only U.S. requirements, such restrictions may seem daynting. "IT people are constantly surprised that their systems have to be adjusted to accommodate data protection, data transmission or other security issues," says Mark E. Schreiber, chairmag of the privacy group and a partner at Ed-

wards Angeli Palmer & Dodge LLP in

technology, media and toloco practice at Greenberg Traurio. CIOs who don't leal like they're in th

oco need to cultivate relationships with the licers like Krueger did, experts say. IT executives should also seek out reports in international law as well as

nel working to the countries to que all the academic literature rather than speak to people on the ground," says ert Zahler, a pertrer at Pillsbury We-

And CIOs must learn how to better to heir movests for help and informal Suite sous he sees IT departments that de

it will recent their recede, only to seach out line yers or compliance officers at the last minute. when changes to ment compliance are The single most beneficial thing that ar If executive can do," Sutin says, "is make sure a lawyer is involved from the early

- MARY & PRATT

CIOs need to have existent that new tect data and prevent illegal transfers. of information, even within the company, Schreiber explains. For example, European privacy laws could prevent an HR official in France from e-mailing salary information to the CEO in London, even though such data-sharing is perfectly acceptable in the U.S. Consider Crotts says that when compiling a list of its project people and their skills, his company first had to get employees to sign forms saying it was OK for their data to be used in sach a manner

3 PROCUREMENT
Blakeslee and her IT clients have learned that some clauses that are standard in U.S. contracts aren't much good elsewhere. So the protections built into legal lingo such as "liabili-

ties," "trade secrets" and "confidential information" don't necessarily hold up in other countries, even if the words themselves are written into contracts.

For example, CIOs buying customized software overseas are often surprised to learn that the rights to software can't be assigned in some

countries, so a vendor could levally sell that custom design to a competitor. Blakeslee says. So when she writes contracts for her IT clients Blakesion includes 99-year leases or noncompete clauses and explicitly spells out that the vendor can't sell the proprietary

information "You can not where you want to be but the language you rely on lin the U.S.I doesn't necessarily get you there

Blakesice says. "The company really needs to think about. 'What do I need here?" A DOCUMENTATION

Linewistics is hardly the only thing that can trip up IT leaders buying globally Different standards in documenting deals can also be problematic. U.S. managers are accustomed to keeping information about software

licenses, contracts and proofs of our chase Managers elsewhere aren't used to such data retention practices. One of Blakeslee's clients discovered that foreign [T managers weren't docu-

menting software purchases, which is necessary information for audits and to minimize the chances of buying pirated products. "It's not just the mulit issue " Blakes. lee adds. "What if you get into a dis-

pute with the vendor? What about contract regotiations? You need to know subor the beceline is " Without that paper trail, you're lost

5 TAXES TT tends to buy a lot of goods and

services, so taxes can be an issue for them," says Robert Zahler, a Washington-based partner at international law firm Pillsbury Winthron Show Pittman LLP. That's because sales taxes and value-added taxes are addressed at the local level, even though such purchases

could be deployed on a global scale. CIOs can minimize taxes, though, by knowing when purchases can be charged to U.S. headquarters. Zahler says. Consulting services and software used companywide could be bought by the U.S. headquarters even if they are heing used at European sites. However, a system bought and used exclusively in Munich, for example, would be subject to local taxes. "You need to get legal advice in each

specific situation," Zahler says. 6 LEGAL SYSTEMS
Experts say that as outsourcing

work to India and developing coun tries has gained ground in recent years, CIOs have begun to learn a valuable lesson about worldwide legal systems: They aren't equal. *Many IT executives aren't focused on the issue of what level remodies are available to them," says Alan N. Sutin. chairman of the national technology, media and telecommunications practice at Greenberg Traurie LLP in

New York And that's a problem when compa gies want to prosecute a worker for say, stealing proprietary code or trade secrets. The legal remedies often aren't available because laws dealing with technology-related crimes in many countries aren't as evolved as they are in the U.S. and Furone Satin sava India is in the process of amending its laws to deal with such crimes, and

many outsourcing providers have improved their security. Sutin says. Still. companies that want to take local action in India. China and elsewhere will find limited police resources and "a very long, very frustrating process" in courts, he says

In making deals CIOs need to list technological requirements to minimize the problem." Sutin says. They should also look for outsourcing providers with U.S. offices, thereby giving them legal resources in U.S. courts should problems arise

FRACTURED WORLDVIEW IT leaders need to keep in mind that laws and regulations vary from

country to country - even in unified areas such as the European Union. "There's a tendency to think that Europe is a region and it only has one law. But it isn't It's much more a series. of individual country laws with some codification. That really surprises even lawyers in the States," says Clive Davies, a London-based partner at law

firm Uswang This has led to fractured approaches that continually need adjusting from country to country. A typical CIO will implement a system that meets the requirements of the Sarbanes-Oxley Act in the U.S. and then broaden his view to similar requirements elsewhere, tweaking the system to meet local laws. There's a tendency if you have a

U.S.-based multinational company to look at the States and see how that goes, and then they'll look as Europe and see how that goes, and then we'll look at the Far East." Davies says, "But it would be better for organizations to do these things on a global basis versus a regional basis."

Pratt is a Computerworld contribution writer in Waltham, Mass. Contact her at marykprattiäverizon.net.

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The challenges of finding IT leaders to handle localization in far-flung regions. **By Jennifer McAdams**

S 130 A M in Nes Delhi, and a regional CIO of a major multinational corporation is flipping through résumés. He needs to fill several posirions on his staff with the help of human resources



ated from the company's New York headquarters. where it is midafternoon The resumes before him executive is leery. Perhaps

he is an Indian expotriate recently returned to lead his company's New Delhi operations and thus realizes that experience listed on international récumés és often infloted. Os manho ha is 11 S. born but has rotated through enough global assignments to know that he must expely the constinue at a applicants

This scenario is typical across global corporations, which often struggle to build effective IT outposts abroad. Chief among the challenges is finding ton-ootch leaders competent enough to assemble qualified remote teams. bridge cultural differences between foreign IT workers and their U.S. counterparts, and coax these groups toward a set of work objectives that are almost

always U.S.-centric. The quest for qualified leaders to work overseas often starts with a pool of expatriates who have settled in the U.S. but are longing to return to the countries of their birth. Now, however, more companies are growing international talent internally by dispatching promising junior executives from the

U.S. to far-flung outposts. Regardless of where the search begins, the goal is to find people who have a rare and desirable set of international management skills, "There are many complexities to working in the global govironment," observes Alan Boehme. CIO at Juniper Networks Inc. in Sunnyvale, Calif. Bochme's career has included more than 20 years of international stints at global corporations such as DHL Worldwide Express

and General Flectric Co. "You always hear the phrase, 'Think globally, act locally,' Well, in this sinustion, a person must think locally to act globally, and things are done very differently in different parts of the world" Boehme says. "In addition to the huge differences in the language and educational systems, there are also so many differences in what a person in another country has learned and what is instinctive to that individual."

Though not the only option, an obvious place to look for senior IT executives who can think across cultures is amid the growing number of foreign-born candidates who have been educated in the U.S. or otherwise steeped in U.S. culture but are amenable to moving back to their homelands

"In many ways, the ideal solution and the first pool to look at is those expatriates who have lived in the U.S. for 10 to 15 years. These people are truly the product of both countries," notes

LEADERS IN THE MAKING

Umesh Ramakrishnan, vice chairman

at executive search firm Christian & Timbers in New York Less thao ideal, however, are those

candidates who officially hail from another country but have resided almost exclusively in the U.S. "If the person falls short on in-country culture, that is disastrous." Ramakrishnan remarks "On the other hand if an executive is able to solve problems in his or her own country but has trouble communicating with superiors in the U.S., in my mind, that is trainable."

Despite some difficulties in finding employees truly familiar with both cultures, corporate hiriog officials and professional search firms are now looking at substantial pools of expotriates willing to exit the U.S. for the right opportunity, according to Mark Minevich, executive vice president and chief strategy officer of Enamics Inc., co-chairmag of the BTM Institute and

co-author of a forthcoming book on elobalization "We have seen that the movement of highly educated IT talent from developing countries to developed countries has had significant economic accial and cultural implications. Now it is io reverse, with IT talent returning to their homes to developing countries and creating new economic environ-

ments," Minevich observes To many expatriates who have grown used to U.S. lifestyles, however,

returning to a developing country must be well worth it. "There are a lot of practical considerations here. It is hard enough to set someone to move down the street, much less across the world," says Shawn Banerji, a recruiter in the technology sector at New York-based executive search firm Russell Reynolds Associates Inc.

Financial concerns are the chief reason a to of experience will halk. Banerij says. "These individuals realize that replicating their executive urban or subcurban lifestyle will be incredibly expensive, even in locatif one subcurban lifestyle will be incredibly expensive, even in locatif one such as India or Axia." he says. The super that you get fewerful rupees for every dottar, you've got to spend way more in India to not substantial.

Look Inside

Given the limitations of finding enough expartists willing to relocate and the expartists willing to relocate and the exparts of litting them abroad, many corporations are looking within for reling stars who might excel in foreign loadership pouts. I would advise the properties of the expansion of the complete of the expansion of the expansion of these energies are many areas a count of these cares are proving so fat, and companies need to have people ready to stee in it. was flowly as

Grooming international talent from within is a major strategy at INO North America Insurance Corp. in Atlanta. "We start a selection process by looking as a talent pool of individuals identified as high performers and screen their current and past performance, looking for early leadership indicators," says jairo Orea, head of regional enservise information integration at the

company's office in Hartford, Conn.
Once identified, junior ING executives are transferred to international
posts, where their management skills
are carefully forged, Orea says. "There
are many cultural changes you encounare many cultural changes you encoun-

India

THE BOOM in software development outcome ing to India by U.S. and European companies has created a shortage of Inchrical manpower at user companies his hada stad! "India has a problem of plenty – plenty of IT talent and, at the same time, plenty of opportu-

states and, at the same time, plenty of opportunities, "said Santay Handu, director of states," said Santay Handu, director of states, sourcing all You Electronics Corpusation India. Ltd., the Indian subsidiary of Tyco Dectronics. Corpu. a passare components invalent in Herindaug, Ph.: This meens that Indiang states and Investigation, and will be a second to the said of the Indiang states and Investigation, and the Indiang states and Investigation of the Indiang states and Indiang st

Some companies manage the shortage by limiting them in-house softweer development, taken developers are the most sought after by outsourcing companies. At Typo India, the reample, lavy applications are developed by a consulting Irean that draws on staken workholds. Within India, the company primarily threat I reviews with more commansibility, such as IT inhibitanchia and application maintenance, matter than come development

ulls. Handu says.

- JOHN RIBERTO INDINESS SERVICE

ter when you start work on international assignments. These can create behavioral barriers. We have to give people time to digest the changes and couch them through successfully overcoming these barriers in order for them to excel in their initiatives," he sugn. Indeed, more companies are realizing that once! Teaceutives have matured through an initial our of duty, many will be reddy to take on

Ireland

PHARMACEUTICAL GUART Pizer Inc., which began operations in teleand in the 1960s, recently chose the Emeratis lake as the launchpad for its worklevels financial system deployment. Yet finding experenced if workers in Inland to support the project has been a challenge, says John

Larson, project leader and vice president of If for corporate finance at Prizer Larson, an American based in Dublin, manages about 300 people, 100 of whom live in lealand. There's a lot of demand for that talent," he says. The current fring prich is a dis-

matic change from the 1990s and 1990s, when IT jobs in Indiand were hard to link, A recent study by Dublin City University found that during the last severmenths of 2005, IT ob vecancies in Indiand Increased by 56%

In particular, Larson is struggling to find employees to fill higher-level IT positions. Because their skills haven't been in great demand in instand, many high level IT professionals have instand to third work in London or the U.S. he saws: Another challenge is obtaining the necessary visus for Indian workers to come to related for territing. The 're finding that the visa and approved system for bringing in people who [the government] seems as competing executes is burdershame compand to other places we work, blothe U.S. or the U.K." Larson says, "It takes a those amount of them, and it's a lot of

Another problem is retention, he says. According to United Nations (guese, learned has the younges population in Europe "Because if a a young population, there is a lot of job hopping that goes on," says Larson. If whorker are on the says larson. If whorker are on the work says Larson. If whorker are on the respectation, and for the best pay and travel opportunities, and thinly don't heastate to move around to find the best offer, he adds.

indeed, many IT workers are switching jobs every two to three years, says Alana. Corroy, a senior IT recruitment consultant at Rescon IT, a placement company in treland. And those moves are paying off. Most IT workers who changed jobs in related in 2005 received 10% to 20% programs in 2005 received 10% to 20% programs.

salary, Contray says.

- NANCY BOHRING.
IDG NEWS SERVICE
cifically, the most effective businesses

leadership roles abroad, says Minevich.

"Companies are leveraging long-term
international suspiaments and then deploying those professionals full-time in energing market locations." he says.

Modding global leaders by sending, them abroad for extended periods of time is a strategy many corporations cited in a recent survey by The Conference Board Inc., a New York-based nonprofessional services of the conference Board Inc., a New York-based nonprofessions.

use two-to-three-year rotations abroad to develop global leaders, who then move on to important posts abroad or participate heavily in identifying expatriste talent to head up these crucial positions, according to the Conference Board's December 2009 poll. Whether groomed internally or placeful from the conference boards and the conference boards and the conference boards and the conference to the conference placeful from the conference to the conference

whether groomed internally or plucked from the growing number of expatriates eyeing international jobs, the choice of a senior IT leader to dispatch abroad is critical. Consider the CIO in New Delhi shuffling résumes on the New York

conference cell. The hiring namages moved to understand the country he or she is working in. Without understanding the culture complexely, you can easily he sold a bill of goods — returned to the complexely of the sold a bill of goods — returned the country of the country of

Scouting Talent Outside the Big City

TRACK DOWN expatrates or other is some unit contemp executives willing to take on global Eastern Blo

promising executives willing to take on global assignments, internal search committees and hard headhunters are scowing less known pools of talent.

Over strategy is to think beyond the biggest cities or most obvious locales in a perficular country when working with local agencies to place senior if executives, says Alam Boahms, CIO at Juniper Networks, "Some large corporations are now looking in smaller cities for laters," he says, citing Purse, India,

Buer in mind that India and East Asia aren't the only options, Beahne adds. "The is come unbelievable technical talent in the Eastern Bloc, he says.

as Asstralla, suggests Sharm Barnat, each three director as executive search from Rasse Reynolds Associates. "Australians tend to crop up in different parts of the world. They are a pretty adventurance group this is fairly open-manded and global in their views." Other constrict likely to pale strong (IT eneragens capable of global assignments.

managers capable of global assignments include lotted and Singapore, according to Mark Minovich, resoutive vice preside and chief strategy officer at Enemics Inc. Academia is another place to look for less fidity in a technical setting, especially if this person is running a purely technical sho or research and development staff, "Runalrishman says.

Also, consider explosing Washington's government technically industry or the IT latent good around the United Nations in Na-

ion Christian & Te

ment Inchnology Industry or the IT nool around the United Mattern in New additional options, advices Banacij.

McAdams is a freelance writer in Vienna, Va. Contact her at Jjwriterva@ anl.com.

abroad.



Blind Spots

Uncovering the holes in your global supply chain. By Gary H. Anthes

are increasingly control of the cont

This lack of visibility one take many forms: Will we receive that shipment forms will we receive that shipment of repair parts in time to keep the U.K. plant running? Wely hasn't that Italian customer received his order! Wely do we seem to have too little inventory in our Utraine warefounce! Why is the latest EDI transmission from Mexico missing data! How can we be sure that our Malaysian subcontractor is meeting or quality standards?

Companies attempt to enhance global supply chain visibility by a variety of means - integrating stovepiped systems, employing technical tools such as dashboards and alerts, outsourcing some supply functions and even resorting to manual systems. Technology is important they say but often what's needed is just better management. AMI Semiconductor Inc. in recent years has subcontracted out an increasing amount of manufacturing and assembly work, mostly in Asia. The resulting partnerships, some 60 of them, have helped it cut costs and cycle times but have hindered supply chain visibility, says Roland Smith director of information services at the Pocatello, Idaho-based chip maker. As the company has outsourced more of Continued on page 40

STUMBLING BLOCKS

It's difficult to get a clear picture of cash flow, soven

tory, and hard and soft financial commitments

The complexity of international transactions is placing

tional transactions is placing stress on internal skill sets. There's a decentralized

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Global Stovepipes

WHILE A FEW companies, such as Proct or & Gamble have facilitated supply chain. visibility by standardizing systems across the globe, many companies still operate

NCH Corp., an irving. Texas-based suppier of industrial maintenance products. has four factories and 26 sales offices in Europe. But when it makes a product in the Crech Republic for delivery to a customer in France, for example, it must first ship the product to an NCH warehouse in France and then to the customer, suther than directly to the customer. And if something happens to the shament an route, it could take days to track it down. The marcon is that NCH has separate, stand-alone systerms in each of its 26 markets.

"It's difficult to have visibility for planning Continued from page 38 its manufacturing operations, its cus-

tomers have demanded more and more detailed information on quality and tests, he says.

The need for data from subcommetors has grown dramatically," Smith says. "We have our own data formats. and very seldom do they match up with the formats in our subcontractors

systems," especially systems in lessdeveloped countries However, China, where AMI's busi ness is growing fastest, presents unique

standards issues. Smith says, "They are on the leading edge of technology. They are really heavy into XML, for example, but most of our other suppliers couldn't care less about XML. As far as China is concerned. EDI doesn't exist. We have found we have to accommodate some of

this in our systems" he says. To help with the interfaces, AMI turned to Trading Grid services from GXS Inc. in Gaithersburg, Md. GXS scrubs and harmonizes intercompany data thews, automates the production of advanced shipping notices and other transactions between AMI and its subcontractors, and provides Natus information on shipments in transit

Still, petting quality data and nest results from some of AMFs overseas subcontractors can be "problematic and unreliable." Smith says. "We want them to FTP it to us, but some want to e-mail it to us or do other kinds of

funny things. "Funns things" can include not being completely truthful about the results.

in the supply chain," says Chris O'Conno chief operating officer for Europe. But he says NOH will move to a single, integrated system using Gracie Process Manufactur-

ing and Oracle Advanced Supply Chain Planning. The rollout is expected to be core nisted in about 12 mont In a perallel project, NCH will outsource

warehousing and customer delivery options to Koninklike Franc Mass Gener MV The new Oracle Corp. systems will interlace with Frank Maan' mysterns via electron ic data interchange to give visibility into the supply chain end to and, O'Conner saws. Then it will be notstitle to make shinmont and trans them desertly from a factory in one country to a customer in another - GARY H ANTHES

of the quality testing the subcontractor has home South over "In come name at the world, folks get pretty inventive," he says. "It's partly a matter of making sure we collect the right kinds of data in order to highlight where there may

Smith says his staff has developed a set of IT standards and criteria for evaluating potential overseas subcontractors, but it hasn't always been easy to get business unit managers who negotiate with suppliers to apply them faithfully. "There have been some burfor stories when price has become the

be a compliance issue."

only objective." he says Even the most basic communications can be problematic. F-mail worked just fine for AMI in the U.S., but time zone differences mount that a measure to an Asian supplier could sit unread for hours overnight, and the reply mucht go unread for hours more. "We could un three or four days having a very simple conversation before we got to the real ducstion," Smith says, AMI put in a BlackBerry infrastructure so that key enemoers could be reached off hours when technical problems arose on the other side of the globe.

Virtual Trucks

One way to sadestep some of the challenges presented by global operations is to have global standards - for systems, processes and procedures, says Alfonso Cos, vice president for elobal supply network solutions at The Procter & Gamble Co. "There's a big difference between being a global company

because you have operations in many countries and being global because you operate globally," he says, "A few years ago, the company moved away from country-by-country operations to really operating globally.

Among other things, that required a four-year project to standardize on a single software vendor - SAP AG for manufacturing systems or 135 planes business unit or region, we brought

in 40 countries. At the same time, PScG tion. 'Instead of having IT groups by all those IT groups under a single organization called Supply Network Solutions," Cos says, "We run all the systems that plan make nack and ship finished product around the world. So one way to ensure visibility is with the costom infrastructure. The other is the organization infrastructure. PScG's system standardization mode

it a lot cusier to put in visibility tools such as dashboards, which connect multiple supply systems. Cos says. The dashboards, which he calls "supply network cockerts," currently extend to P&G's manufacturing facilities but will eventually span the entire supply chain, he says, from raw material purchases to customer deliveries. The dashboards give views into the

supply chain at whatever level is appeapriate for the user, from a foreman in a Pampers plant in Coloune, Germany, to a business unit manager at headquarters in Pittsburgh, "You can see, by SKU, the orders, production plans and actual production in various stages,"

The dashboards — which were custom-developed by P&G - can look at higher levels as well, and back in time. For example, a user could ask to see demand forecasts for a product across multiple countries and periods You can see which ones are red and which are green in terms of the forecasting accuracy." Cos says.

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Be aware of business customs. For instance, never throw documents on the table during a business meeti This pesture is considered highly offensive. - ExecutivePlanet com-

Supply chain visibility means more than just giving internal users the information they need P&G developed its Supplier Portal to let suppliers -100,000 worldwide - peek into its production schedules. They can also use the portal interactively to resolve shipping issues and other problems. Cos says. Users are aided by virtual tracks and

www.comm.duraccid.com

cases that move around on the screen. Window to the World

As at P&G, system dashboards are a key visibility enabler at London-based Shell Lubricants B2B, a unit of Royal Dutch Shell PLC, "The dashboards answer the auestion. 'Are customers getting what they want, when they want it?" says CIO lay Crotts. But he And involved to Horocco short contract of the dashboards, saving the tools give Shell Lubricants a competitive advantage

"The challenge is what the local expectations or laws might be." Crotts says. "How do you collect cash in conntries where electronic payments are not even thought of? You might say 30 days is normal [for paying bills], but in some countries, it's 60 or 90 days. It's unbelievable the variances you get Crofts says a company must be real istic about what it can accomplish with technology and how far it can force disparate cultures, business practices and legal structures into the rigid

molds that systems sometimes require "If you think you'll get it absolutely perfect, you are fooling yourself," he says. "Having manual work-arounds has to be an acceptable option. It really requires executive sponsorship to ensure that the passion for standardization doesn't up so fast that you miss the market or miss your customer's expectation."

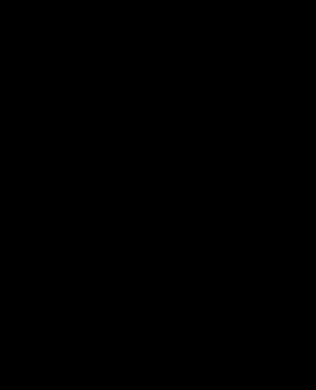
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Upon arrival in Mexico, business travelers must complete and submit a form authorizing the conduct of business, but not employment, for a 30-day period. U.S. State Department

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Continued from page 38 its manufacturing operations, its customers have demanded more and more

detailed information on quality and tests, he says "The need for data from subcontrac-

tors has grown dramatically." Smith says. "We have our own data formats, and very seidom do they match up with the formats in our subcontractors' systems " especially systems in lessdeveloped countries.

However, China, where AMI's business is growing fastest, presents unique standards issues. Smith says, "They are on the leading edge of technology. They are really heavy into XML, for example, but most of our other suppliers couldn't care less about XML. As far as China is concerned. EDI doesn't exist. We have found we have to accommodate some of

this in our systems," he says.

To belo with the interfaces, AMI urned to Trading Grid services from GXS Inc. in Gaithersburg, Md. GXS scrubs and harmonizes intercompany data flows, automates the production of advanced shipping notices and other transactions between AMI and its subcontractors, and provides status information on shipments in transit.

Still, getting quality data and test results from some of AMI's overseas subcontractors can be "problematic and unreliable," Smith says. "We want them to FTP it to us, but some want to e-mail it to us or do other kinds of

funny things." "Funny things" can include not being completely truthful about the results

of the quality testing the subcontractor has done. Smith says "In some parts of the world, folks get pretty inventive," he says. "It's partly a matter of making sure we collect the right kinds of data in order to highlight where there may be a compliance issue."

Smith cave his staff has developed a set of IT standards and criteria for evaluating potential overseas subcontractors, but it hasn't always been easy to get business unit managers who negotiate with suppliers to apply them fairbfully, "There have been some horfor stories when price has become the

only objective," he says. Even the most basic comm can be problematic. E-mail worked just fine for AMI in the U.S., but time zone differences meant that a message to an Asian supplier could sit unread for hours overnight, and the reply might go unread for hours more. "We could enthree or four days having a very simple conversation before we got to the real question." Smith cave, AMI mut in a

BlackBerry infrastructure so that key engineers could be reached off-hours when technical problems arose on the other side of the globe.

Virtual Trucks

One way to sidestep some of the challenges presented by global operations is to have global standards - for systems, processes and procedures, says Alfonso Cos, vice president for global supply network solutions at The Procter & Gamble Co. "There's a big difference between being a global company

because you have operations in many countries and being global because you operate globally," he says, "A few years ago, the company moved survy from country-by-country operations to

really operating globally." Amone other thines that enquired a four-year project to standardize on a tingle software vendor — SAP AG for manufacturing systems at 135 plants in 40 countries. At the same time. P&G moved to integrate its IT organization. "Instead of having IT groups by business unit or region, we brought all those IT groups under a single organization called Supply Network Solutions," Cos says, "We run all the systems that plan, make, pack and ship finished product around the world. So one way to ensure visibility is with the system infrastructure. The other is the organization infrastructure.*

P&G's system standardization made it a lot easier to put in visibility tools such as dashboards, which connect multiple supply systems. Cos says. The dashboards, which he calls "supply network cockpits," currently extend to PAC's manufacturing facilities but will eventually span the entire supply chain, be says, from raw material purchases to customer deliveries

The dashboards give views into the supply chain at whatever level is appro-printe for the user, from a foreman in a Pampers plant in Cologne, Germany, to a business unit manager at headquarters in Pittsburgh, "You can see, by SKU, the orders, production plans and actual production in various stance Cos says.

The dashboards - which were custom-developed by PicG - can look at higher levels as well, and back in time. For example, a user could ask to see demand forecasts for a product across multiple countries and periods You can see which opes are red and which are green in terms of the forecasting accuracy," Cos says.

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Supply chain visibility means more than just giving internal users the information they need PNG developed its Supplier Portal to let suppliers — 100,000 worldwide - neek into its production schedules. They can also use the portal interactively to resolve shipping issues and other problems. Cos says Users are aided by virtual tracks and

cases that move around on the screen. findow to the World

As at P&G, system dashboards are a key visibility enables at I ondon-based Shell Lubricants/B2B, a unit of Royal Dutch Shell PLC. "The dashboards answer the question 'Are customers setting what they want, when they want it?" says CIO lay Crotts But he declined to discuss the content of the dashboards, saving the tools give Shell Lubricants a competitive advantage.

"The challenge is what the local expectations or laws might be," Crotts says. "How do you collect cash in countries where electronic payments are not even thought of? You might say 30 days is normal (for paying bills), but in some countries, it's 60 or 90 days, It's unbelievable the variances you get." Crotts says a company must be realistic about what it can accomplish with

technology and how far it can force disparate cultures, business practices and legal structures into the rigid molds that systems sometimes require. "If you think you'll get it absolutely

perfect, you are fooling yourself," he says. "Having manual work-arounds has to be an acceptable option. It really requires executive sponsorshi to ensure that the passion for standard-ization doesn't go so fast that you miss the market or miss your customer's ernectation " 8

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FIT SEEMS that the world has become a more dangerous place for sensitive organizational data over the past five years, that's probably because it has. As natural disasters terrorism. disease and social unrest have threatened to affect staffing in various parts of the globe, the business continuity plans of many organizations have had to become heavy on the distantes encourant side

Such safeguards become critical when companies extend their data infrastructures overseas. Catastrophic events such as the 2001 terrories attacks in the U.S. have forced IT managers to make disaster recovery a priority. At Advance Transformer Co. a lighting manufacturer in Rosemont III and a distision of Philips Electronics North America Corp. the attacks were a wake-up call, says CIO Julius Tomei

"The federal government shut down airports and closed borders, which imparted to us, like all companies, the importance of disaster recovery " he save Tomei isn't alone. In a November 2005 survey. Gartner Inc. found that North American IT manage ers are more than redoubling their data backup and replication processes, in large part because of natural disasters such as last year's Hurricane Katrina in the U.S. Other global threats to business operations such as the December 2004 Asian tsunami and the SARS epidemic in 2003, got the attention of disas-

ter recovery planners as well. In 1999, Advance, which has engineering and manufacturing facilities in the U.S., Mexico. Southeast Asia, the Netherlands and Reavil contracted Hewlett-Packard Co. to provide business continuity services, including disaster recovery. HP set up a data recovery center, currently located in Pennsylvania, that replicates the hardware and software in Advance's Rose mont data center, creating a "low-level layer of

our environment," says Tomei, Twice annually, Advance tests its disaster record erv infrastructure and processes by running its Unix applications in the HP service center. For ongoing, data backup. Tomei works with IT staffers at outlying elobal locations to determine which data should be transferred to the central data center and how often.

Who Owns Business Continuity? When an organization's IT infrastructure extends

across national borders, business continuity plans grow more complex. Staff management, local regulations and the location of data centers all come into play in a global company's business continuity plan First and foremost, management must decide how

to coordinate a business continuity plan infrastructure — not just hardware and software, but also employees who might be affected by disasters. IT assets and data may be geographically scattered, but someone still has to be in charge of the plan, and that person shouldn't be the CIO, says Dan Bailey, senior manager at Protiviti Inc., a Dailas consulting firm.

"Thinking about disaster recovery on the level of a CIO is certainly appropriate. But if disaster recovery in its own right is strictly an IT function, you're only recovering all of IT. You're not recovering HR. accounting and other departmental applications." says Bailey. "From a global perspective, for overall crisis management and business recovery, all the

Creating a shelter for data in a dangerous world. By John S. Webster



potential impact is on the business side." For that reason, managers in financial or operations departments can be more effective leaders, be-

cause those are the areas of business that get affected by data disruptions. "[Business continuity plan] ownership is very ineffective from IT," Bailey says. At The AES Corp., a \$9.5 billion global energy firm in Arlington. Va., IT managers are implementing

companywide business-continuity standards to ensure that power generation and distribution facilities located in far-flung places such as Cameroon, Pakistan and Panama stay up and running during a crisis. According to CIO George Coulter, passage of the U.S. Cyber Information Security Act, which is part of the Department of Homeland Security Appropriations Act of 2005, inspired the IT group to put global standards in place. The company set up data centers in Europe and the eastern U.S. and a global WAN connected with fiber to provide real-time load bala With 70% of its business outside the U.S. and 135

businesses in all - including 124 power operation businesses, nine distribution businesses and 15 million customers worldwide - getting everyone on the global WAN and conforming to companywide business-continuity standards wasn't easy, says Coulter. "It's extremely challenging, but we rreat all businesses with the same standard," he says, "With the data

centers in place and the global WAN, we don't have to worry about in-country problems, even in areas like Cameroon. Business by business, we connected them to the data center, and those problems on away." Coulter says AES chose the data center sites not because they're in relatively stable global regions, but because they're on the 311Mhit/sec, fiber backhone used by AES's network infrastructure provider

You can't get this kind of bandwidth in Brazil. for example. With the data centers on two different continents, each with its own network links, we have a reliable, robust architecture and built-in redundancv." says Coulter.

Staffing Matrix

AES's IT staffers are geographically dispersed. To ensure that various units conform to standards for business continuity, all 45 of AES's distribution centers have full IT staffs, including an IT leader who reports to an IT council.

With power distribution businesses worldwide. Coulter's staff spends a lot of time working with idiosyncratic local government agencies that oversee utilities. In fact, he has a staff dedicated to the task. "In our business," he says, "it's a fulltime iob to work with local authorities

In addition to local IT leaders, global com panies must have one person who oversees business continuity and disaster recovery says Protiviti's Bailey. "Should you have foreign IT locations? The answer is an absolute yes, but how do you coordinate them? From a business-practice continuity perspective, there should be a single, over-

arching point person," he says. This person should have responsibility for manus ing the disaster recovery process and ensuring that the three core elements of corporate business continuity management - crisis management, business

resumption and disaster recovery - are met, in part through regular evaluation and testing, says Bailey. *Each business unit should also own a recovery plan," he says. "One owner couldn't go in and know how that unit worked. The person managing the proc-

ess, steering the ship, has to make sure people are in compliance with the overall plan." As an IT infrastructure gains new hardware and

software and as the business grows, evaluation of disaster recovery is crucial says Advance's Tomei "We continually review and look at our disaster recovery plan to take into account how we can be better prepared," he says. "A disaster recovery plan is a

living, breathing document. It's part of what we do." > Webster is a freelance writer in Providence, R.L. Contact him at john's webster@verizon.net.

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MARK HALL

CIOs (Should) Rule

HIEF FINANCIAL OFFICERS HAVE TOO MUCH CORPORATE POWER CIOs have too little. This is especially true among global organizations, where a good CIO is a far better asset than a good CFO. There. I've said it, and I feel better. You should start thinking it

too, if not saving it aloud. Far too often, CIOs, apparently afflicted with a surplus of humility, strive merely to be on par with CFOs. We see stories, such as the one that came out of last year's Computerworld Premier 100 FT Leaders conference. quoting CIOs in different industries arguing that companies should put their CIOs on the same level as their CFOs (see "TT Leaders See Need to Be on Par With CFOs." March 14, 2005). And in their article "Decoding the CIO-CFO Relationship," Deloitte Consulting's Ann Senn and Kenneth Parrillo seem convinced that the perceived

tighter collaboration between the two executive levels should be seen as progress

for the CIO. And not without reason if results from Optimize magazine's anmust survey are true. Last year's poll showed a steady climb in the number of top IT executives reporting to the CFO -- up from 8% in 2003 to 22% in 2005. You almost get the idea that a CIO should be happy if the CFO remembers

Frankly, CEOs of global businesses. who put their CFOs over their CIOs are burtleg their companies and often themselves. And I, for one, would think twice before investing in companies run by such short-sighted management.

One Strategist, One Implementer

My proposition is simple: The value of a CIO expands exponentially as an organization grows operations overseas. On the other hand, CFOs lose their value as a company goes international. Generally speaking, a CFO's most prized trait is

his ability to count money in ways that are most favorable for a business (and hopefully legal, too). That means CFOs are well versed in tax-avoidance strategies, revenue-recognition policies, optimized audit procedures, balance sheet preparation, cash management and other skills that are ideal for controlling costs and squeezing profits from revenue. Without skills like those, a CFO might as well be just another CPA

However, most of those skills are based on the specific accounting rules and tax laws within a particular country. With very few exceptions, when a company moves some operations overseas, CFOs outsource those skills to locals. That's because the financial laws of each nation differ, so what works in one country doesn't necessarily work in another.



If the board of directors decides that expanding abroad is essential to errowth. CFOs must defer to others. Your ton financial strategist becomes as much an advisce as an adviser when it comes to global issues. In other words, when he's talking about the way to manage money overseas, he's spouting secondhand information

On the other hand, a CIO for an international company need not defer to anyone else when it comes to defining and executing a technology strategy to support the business.

Technology knowledge, unlike financial acumen, is truly international, A CIO can create business opportunities for global operations

by implementing technology strategies that create or improve a worldwide supply chain, multinational product distribution system, international customer communications technology and even financial systems to support the needs of virtually any nation where a company wants to do business. One other point: In all the major business scan-

dals that have hit the fan in the past five years, I can't recall a single CIO who's been fired or indicaed, let alone one who has copped a plea or been sent to the slammer. But CFOs at Boeing, Enron. Tyco. WorldCom and many others have all been at the center of corporate messes. Of course, most CFOs aren't crooked, and dealing with money is inherently more corrupting than tinkering with technology. But there's something else at play here

A CIO by nature thinks about his role in a global context and, to my mind, makes a better top executive than a CFO. It's time for CIOs to shed their timidity about seeking parity with CFOs. In fact, I think it's time the CFOs started reporting to CIOs.

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Continued from page I N.Y. Suit

Alberto Gonzales has authorized lawsuits against the state and its elections board. Kim added though that the U.S. Department of lustice would rather negotiate a settlement with New York of

ficials than go through "costly and protracted litigation." HAVA was passed by Coneress in 2002 in an attempt to improve the federal elections process. All 50 states were required to meet the law's provisions by the start of this year or face sanctions by the DOL Several state officials interviewed recently acknowledged that they remain in violation

of the statute, but only New York has been publicly warned that a lawsuit is possible A spokesman for the New York Elections Board acknowledged last week that the state lacks handicapped-accessible voting equipment and has not vet created the required voterresistration database

The board is discussing the status of its efforts with the DOI, the spokesman said, adding that the state was delayed in starting HAVA projects while it waited for the New York legislature to create year

dor certification processes and other rules. The legislation was finally passed last July. The snokesman said state officials expect work on the voter registration database to be done before the federal mary elections in Septem.

ber. The elections board is also speeding up the certification process for handicapped-accessible voting machines, be said. The state could be forced to return some of the \$220 mil-

lion it has received for HAVA compliance work if the requirements seen's mot A DOI spokesman declined

to say what penalties might be imposed on New York or to offer any further information on the matter

New York Not Alone Officials in some states claim to be compliant with HAVA

but a number of other stores are still scrambling to comply with the law

Spokesmen for the secretary ies of state in Texas and Ohio. for example, said that those states are fully compliant with HAVA, whereas officials in California and Connecticut acknowledged that they still

aren't meeting the remirements of the law In a survey conducted law last year by the National Association of Secretaries of

State (NASS), only 24 of the 43 states that responded said they expected to be fully compliant by the lan. I deadline DOI personnel are talking to state elections officials and

are "evaluating the situation of each state," said the avency's snokesman, "We will then determine what action should be taken if any " He declined to say whether any states besides

New York have been formally threatened with a lawsuit. Sam Reed, president of the NASS, said most states have done a fairly good job of responding to HAVA's requirements considering that the federal deadlines weren't real-

istic from his point of view Reed, who is Washington's secretary of state, said he didn't know the specific status of member states because of the less than full participation in the association's survey and because state officials "tend to play it chara to the own ?

Based on his experience in the state of Washington, Reed said, the DOI has so far been encouraging progress rather than imposing penalties.

Florida County Loses \$564,000 d Grant for Voting Machines

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Feds Sav Kumar May Have Erased Evidence From Lapton accounting fraud case against ument filed this month filed Feb. 2 in U.S. District

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Kumar left the company

TODO R. WEISS At the upcoming trial of Sanjay Kumar, prosecutors will present evidence that the former CEO of Computer Associates International Inc. grased data from his lanton PC that was potentially material to the

eapert witnesses to testify Correction letter claims that Kumar refor-Last week's On the Mark cohores matted his laptop to run Linux included a photo of a product after the government started that was incorrectly identified as investigation CA in 2002 (Streaming Inc.'s Support ce for help deak staffs. which is now known as CA he cichard device was a se Inc., in June 2004 and was charged with securities fraud and obstruction of justice later occi, Mass. The that year. His trial is sched-



uled to begin on April 24. According to the U.S. attorney's letter, David Bure, a looks forward to addressing consultant at Pricewaterhouse Coopers who specializes in

forensic technology solutions," is expected to testify about the News Service

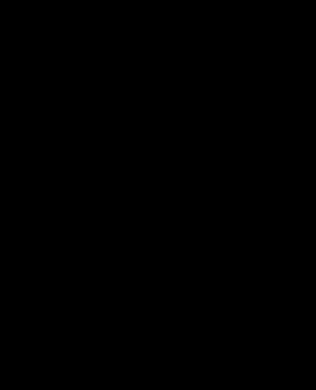
approximate date and time him, according to a court docthat Kumar reformatted the PC and about the effect that

The document, which was procedure would have had on data stored on the system. Court in New York, is a letter Of particular interest, the from the local U.S. attorney's letter said is a document related to software license agreements that CA recognized as revenue in the quarter that regarding the alleged destrucended Dec. 31, 2000 tion of possible evidence. The

Kumar's attorney, Jack Cooney of Davis Polk & Wardwell in New York, called the new allegations "baseless" last week

"One and a half years after (his) indictment, the prosecution is still desperately trying to find some semblance of credible evidence that Mr Kumar actually committed a crime here," Cooney said. He added that Kumar "very much

this matter in court.") Weil writes for the IDG



Continued from page 1 N V Suit

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Florida County Loses \$564,000 **Fed Grant for Voting Machines**

state

A MISSED DEADLINE has Florida's Leon County to forfest \$564,000 m federal hands narrowined for the nurrhans of handramed acceptate until

Florida Secretary of State Sue Cobb responded the county's portion of the state's swept away federal grant because accommed systems it's been weren't purchased by the los I desided and stressful

Leon County Flor tions Commissioner for Sancho sad he is our ION SANCIO mostly in talks with two voling systems vendors and may reapply for the grant money : time to reach an agreement with

once a contract is signed At the same time. Sancho said the county will get the gees whether the grant is reapproved or not. "We have over \$1 milion in the elections budget for new equip-

ment. Money is not the issue in this debate," he said. It will be up to the Florida legis lature to decide if Leon County will once again be eligible to receive the funds, said a spokenwomen to the secretary of state.

Leon County was one of two of the state's 67 countes to lose its crant money, she noted The loss of the expected fund ing was the latest in a series of backs for Leon County in its effort to comply with the Help

counties have grammed to exactly Leon County with equipment for any emergency elections.

Feds Say Kumar May Have Erased Evidence From Lapton accounting fraud case against

BY HANCY WE'L AND TOOD H. WEISS him, according to a court doc-At the upcoming trial of Sanomen filed this month iay Kumar, prosecutors will present evidence that the former CEO of Computer Associates International Inc. erased data from his Japtop PC that was potentially material to the

Correction Last week's On the Mark column included a photo oil a product that was incorrectly identified an NetworkStreaming Inc.'s Support Appliance for help desk staffs. The pictured device was a security ovent management appliance made by Network Intelligence Corp. in Westwood, Mass. The appliance sold by Ridgeland.

Miss.-based NetworkStreaming

is pictured below.

forensic technology solutions." is expected to testify about the

The document, which was filed Feb. 2 in U.S. Dietrict Court in New York, is a letter from the local U.S. attorney's office notifying Kumar's lawyers of a plan to call two expert witnesses to restife

regarding the alleged destruction of possible evidence. The letter claims that Kumar reformatted his lactor to run Linux after the government started investigating CA in 2002. Kumar left the company which is now known as CA Inc., in June 2004 and was charged with securities fraud

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added that Kumar "very much looks forward to addressing this matter in court ") Well writes for the IDC News Service

Late last year, the county was close to signing a contract to buy

HAVA-complient optical scan machines from Floriton Sustaine and Softwere Inc., but the worder pulled out of the deal at the last minute.

De met-had turned to ES&S after screeging an invest most in 100 to ob screen systems from Durbold Election Systems Inc., mostly over concerns about

they accuracy. Sancho said there wasn't enough

another vendor before the grant The main problem we have had was the failure of ES&S to sell us. the equipment that its Finnis cons. had promised they were going to sell us," said Sancho, "An sono as ESAS withdraw the agreement, the shale sweet away the money. It's

been inconvenient and strussky?" Sencho said the county is once again in talks with Diebold as well as with Sequous Voting Systems Inc. He hopes to have HAWA-compliant systems estalled by May 1. in the meantime, neighborro

FRANK HAYFS . FRANKLY SPEAKING

IT On Target

N THE EARLY 1940s. I. Presper Eckert was the designer and chief engineer building ENIAC, the first general-purpose allelectronic computer (see story, page 18). It was a huge undertaking; ENIAC was the largest electronic device that had ever been built. So why did Eckert - on a tight schedule and with a limited staff - take time out to feed electrical wire to mice? Because he knew that ENIAC's hundreds of miles of wiring would be chewed by the rodents. So he used a cageful of mice to taste-test wire samples. The wire whose insulation the mice chewed on least was the stuff Eckert's team used to wire up ENIAC.

It was an elegant solution to an unavoidable problem.

ENIAC was officially unveiled 60 years ago this month. These days, IT people don't usually worry much about mice chewing on the wiring. We've got other unavoidable problems, like how to keep costs down, run development projects with limited resources and match up commodity hardware and off-the-shelf software with the business needs of our users. We've certainly come a long way from Eckert and his mouse cage.

haven't me Or maybe not. After all, Eckert's budget for the most complicated IT project up to that time was less than \$500,000 — that's \$5.5 million in today'a dollars. He had just a dozen technicians working on ENIAC - there was a war on, after all. And they were using commodity wire and off-the-shelf vacuum tubes to build a system that

experts said would never work But Eckert had an advantage over most people in modern IT shops. He understood exactly what ENIAC was intended to be used for calculating trajectory tables for shooting artillery at the enemy. Keeping ENIAC's wiring unchewed was critical to making that possible.

How many IT people today really understand what our systems are for? Some of us just aren't interested We want to write elegant code, or maximize network throughout or ontimize server utilization. We don't care what the business does or how it

does it. We're pure techies, that's all. Many of us do care about the business processes we automate. We're focused on pushing costs down. keeping users happy and getting business done

But that's not quite as sharp as Eckert's shooting artillery at the enemy focus, is it?

How many people in your IT shop understand what gives your company a competitive advantage? That comes down to products, people and processes - what your company sells, who makes and sells it, and how it's made and sold Anything that contributes specifically to getting customers to buy from your company instead of a competitor is a competitive advantage. Anything else, well, isn't.

That's what our systems are supposed to be for: to support our ability to compete. We're not cranking out trajectory tables. But the goal is still

to hit the target If we know what our purpose is, we can spot

what's important and what's frivolous. We can understand when customer service people inconveniently tell us they need faster response times. or sales guys ask for a hard-to-build custom credit-check calculation. Those are our unavoidable problems - the ones that demand elegant solutions from us.

And we can safely assume that customizable color schemes for a back-office application aren't such a high priority.

Can your whole IT shop get that kind of clarity? Maybe not. Some techies won't want to. Others simply may not get it.

But tell them about it anyway For those who understand, it will explain the otherwise inexplicable, unreasonable, apparently meaningless demands that users sometimes make. It may even spur them to find ingenious new ways to increase the real value your IT shop delivers to the business — though presumably short of feeding wire to mice And if not, at least it'll give them something to chew on 1

Incluse on the Concent







Warren counts on the managed IP services of the new AT&T to securely and instantly connect his company to designers, suppliers and buyers all over the world.



MULTIPLE PHONE NUMBERS ARE A HASSLE EVERYONE HAS TO LIVE WITH.

